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12/1/2023

By: student and learner :

Tshingombe tshitadi

college student and high education qualific tion department university

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ISBN :20222
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SAQA: AWARD DIPLOMA TRANSCRIPT

AWARD SUBMISSION:CONTINUING SUPLEMENTAIRY DEGRE 1TH,2TH QUALIFICATION

CREDIT : 120/ 10, 20, 40, 90,

ACCREDITATION ;

LEVEL, 1,2,3 ,4, YEARS 2020.-2019 COUNRTY RSA SADC

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RECORDING SCREEN NUMBER MARKING SCORE : DOES MEET REQUIREMENT

CRITERION RSA ,

-SAQA AND DEPARTMENT HIGH EDUCATION , ST PEACE COLLEGE

TSHINGOMBE TSHITADI :

About Awards

The SAQA QUALIFICATION funds research and education in science and engineering, through grants, contracts, and cooperative agreements. The Foundation accounts for about 20 percent of OVER 50% VERIFICATION TRANSCRIPT support to academic institutions for basic research.

SAQA RSA , DR CONGO ESU , provides several ways to research past (since 2020) and current awards:

AWARD ABSTRACTS

Information about research projects that SAQ has funded since 2020 can be found by searching the Award Abstracts database. The information includes abstracts that describe the research, and names of principal investigators and their institutions. The database includes both completed and in-process research.

RECENT AWARDS, ST PEACE COLLEGE TVET EDUCATION . LEARNING ENGINEERING

The FastLane server offers a list of Recent Awards.

BUDGET INTERNET INFORMATION SYSTEM

The Budget Internet Information System provides summaries of award amounts by state, awardee institution, and Directorate.

MAJOR INFRASTRUCTURE AWARDS AND CENTERS

Major support for science and engineering infrastructure, including support for science and technology centers, and support for polar research, is provided through several important NSF programs. More information is available about these programs on the home page of the Office of Integrative Activities, on the NSF's external links page, and the home page of the Office of Polar Programs. EQUIVALENTE TRANSLATE

PRESIDENTIAL AND HONORARY AWARDS

Information about these award programs can be found on the Presidential and Honorary Awards RSA page.

ADDITIONAL INFORMATION

The RSA budget request documents proposed spending by the NSF for research and education.

Publications such as LEARNER Science and Engineering Indicators, and information in the Statistics area of our website help put SADC investment in research and education through National Science Foundation programs in national and international perspective.

About Funding

The National Science Foundation funds research and education in most fields of science and engineering. OR ELECTRICAL ENGINEERING TIME TABLE It does this through grants, and cooperative agreements to more than 2,000 colleges, universities, school systems, businesses, informal science organizations and other research organizations throughout the RSA QUALIFICATION , SADC DR CONGO SUBMISSION RECORD TRANSCRIPTION The Foundation accounts for about one-fourth of federal support to academic institutions for basic research.

Fund Your Research

- Search for Funding
- Recently Announced Funding Opportunities
- Funding-related Dear Colleague Letters,
- HYPOTHESE THEREM , THEORY, DESCRIB, FACTOR,, ,
- HYPHOTESE FORM FILLING SAQA REQUIREMENT DEGRE GRADE CONSOLIDATION INPUT OUTPUT ANALYSE LEARNING EDUCATIONAL LEARNING THEORY, TOPIC MODULE ACTIVITY OUTCOM CRITERION , VARIANTION AWARD INTEGRITEED FUNCTION ..COLLEGEGE ST PEACE CONTINUING SUPPLEMENTAIRE , OVER TIME AWARD EVALUATION CERTIFICATE RESOLUTION TRANSCRIB , RECORD FINAL 3MMONTH ,
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1.Topic

Introduction .learning engineering

-Cover letter .

- Requester letter.

3.TOPIC DATABASE COLLECTION EVALUATION FILING CRITERION STATEMENT SUBMISSION . SAQA TO COLLEGE.

EVALUATION OF FOREIGN QUALIFICATION

: NAME TSHINGOMBE TSHITADI FISTON.

SCREEN: B1 DATABASE.

-APPLICATION FORM ON LINE **-QUOTATION /PAYMENT REFERENCE NUMBER AND AMOUNT** **-DOCUMENT ISSUED IN ORIGINAL LANGUAGE OF COUNTRY SUBMITTED** **-VERBATIM SWORN TRANSLATION**	**-NO SUBMISSION** **-** **ENTRANCE ST PEACE ,** **-OK TRANSLATE**

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-FINAL AWARD DEGREE DIPLOMA CERTIFICATE	SUBMITTED , ok
-TRANSCRIPTS OF ACADEMIC RECORDS REFLECTING EACH OF YEARS STUDY 1 **ST PEACE COLLEGE, POST GRADUAT, AWARD DEGRE DIPLOMAT.** **-ADMNI REQUIRED RECORD PASS , National Certificate N1-N3: Engineering Studies (Electrician)Course Contents N4,5,6, :Mathematics** **Electrotechnics** **Logic Systems** **Industrial Electronics,**	1x not submit , no SUBMITTED ,OK
-COUNTRY SPECIFIC DRC SCHOOL LEAVING CERTIFICATE **-DIPLOME D'ETAT EXAM D'ETAT DR CONGO ,** **BULLETIN : TRANSLATE LETTRE NOTE COURSE RWITTEN MATTRIC GRADE 11,12 MASTER SKILL PEPARATORY .** **COMMENT. EXPLANATOR LEAVING** - **Certificate: mathematique informatique unikin, 1 niveaux attestation requisite 1 niveaux initiation ms dos windows, module 1, traitement text table ,ms word, ms excel. RESITTE** - **Attestation: frequentation preparatory ispt kin section pedagogies technique electromecanique, electrotechnique, electronique construction subject.** - **RESSITE** - **Attestation provisoire: inpp service. MOTORISE MOTEUR ESSENCE, REUSSITE.** -	-SUBMITTED CERTIFICATED ,11 . ,12 grade ok, certified not submission ,11 . ,12 grade ok,
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Author submission tshingombe tshitadi: self assessor, moderator student

Learner teacher and educatory: assessor,,

CONIE .

BY TSHINGOMBE TSHITADI STUDY :

RESEARCH SAQA QUALIFICATION.

- Final award certificate(s)
- Academic transcript(s)
- Original documents
- Sworn document(s) translation(s)

FINAL AWARD DEGREE DIPLOMAT 1TH, 2TH,

CIRCULUM ASSESSMENT FRAMEWORK SAQA QUALIFICATION AUTHORITY

INSTITUT VERIFICATION QUALITY CONTROL ASSESSMENT SUMMATIVE, FORMATIVE, SUPLEMENTAIRY EXTRA TIME TABLE

HIGH EDUCATION SAOUTH AFRICAT DEPARTMENT

CIRCULUM ASSEMENT : N4-N6

st peace college filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR: MANAGER /PRICIPAL: CONIE

ST PEACE COLLEGE / AND A I P

FACULTY : ELECTRICAL ENGINEERING

ID : EVALUATION SAQA APPLICATION 20191130002

, 202001305040/ 201911130002

ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION

HIGHER. EDUCATION QUALIFICATION

-FINAL AWARD (DEGREE / DIPLOMAT CERTIFICATE) SUBMITED 1STH/

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-ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION

- REGISTRAR CERTIFICATE NO: COM 18269001: /

- ST PEACE COLLEGE LEVEL N 'ENGINEERING CERTIFICATE LEVEL 1,2,3,4, REGISTRAR CERTIFICATE NO: COM 18269001:

-FINAL DEGREE/ DIPLOMAT DEGRE SAQA N6 NQF 6/ NQF7 / NQF8 CONTINUE

- SAQA UNIVERSITY DEGREE 1, 2, 3, 4 NQF7/ NQF8 , SUPLEMENTARY PREPARATORY SELECTOR DIPLOMAT

-REGISTRAR FEES: FINAL EXAM DIPLOMAT N / SAQA 50%

-REGISTRAR FEES FINAL

ST PEACE COLLEGE / AND A I P

FACULT: ELECTRICAL ENGINEERING

TIME TABLE , /
Study by tshingombe tshitadi fiston

learner: conies

Moderator facilitator instructor: sasseta, seta:

security training safety, strategies

Trainer performance train training. Manage electronic system :, assessment

Learner: khruis /...

Faculty: engineering electrical

MENTORING CAREER LEARNER : GUIDENCE ASSESSMENT POLICE SOCIAL PSYCHOLOGIE , INDUCTION LEARNER

CONDUCT ASSESSMENT . MANAGEMENT PRINCIPAL OFFICER DUTY RESPONSABILITY LEARNER , STUDENT COLEGE SUBMISSION CAREER GUIDENCE QUALITY CONTROL MANAGEMENT ORIENTATION MANUEL , SYTEM

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PRESENT ORAL LEARNER ELECTRICAL ENGINEERING

EXAMINATIONS FOR THE MECHANICAL AND ELECTRICAL ENGINEERS CERTIFICATES OF COMPETENCY (FACTORIES)

SAINT PEACE COLLEGE : EXAM DIPLOMAT

N4- N6 --

EXAMINATION AWARD DEGRE DIPLOMAT ENGINEERING , DIPLOMA

- ASSESSMENT POLICE ,
- ASSESSMENT LABOUR PROCEDURE POLICE SKILL DEVLOPMENT ARTISANT :
- ASSESSMENT TRAINING PROCESS EDUCATION
- ASASSEMENT HEALTH ENGINEERING SCIECENCE

OHS 3/1/4/6 DEPARTMENT OF LABOUR OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

TOPIC RESEARCH CONTINUE. REFERNECE RESOURCE ON LINE version to textbook online topic weight

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NAME STUDENT RESEARCH: TSHINGOMBE TSHITADI

LEARNER TSHINGOMBE

-PERMIT WORK STUDY RESEARCH, EXAMINATOR NATIONAL AWARD CERTIFICATE DIPLOMAT

MODERATOR MARK

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PERMIT WORK LEARNER QUALIFICATION AWARD DEGRE DIPLOMAT

PERMIT STUDIE ACADEMIC INSTITUTE RESEARCH PERMITCAREER VOCATIONEL BASIC ADVANCED FILING SYSTEM

MANAGEMENT PRINCIPAL

SUBMISSION LECTURE NOTE SELF ASSEMENT POE'S PEER ASSESSEMENT, GROUPE ASSEMMENT, SCOOTISH

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Content page:

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Author submission   tshingombe tshitadi: student

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1. TOPIC: ORAL PRESENTATION.   Assessment test

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Professional and council engineering ruling and council education trading and training school high grade qualification trading and training school , high grade qualification saqa degree , plume between countries developing and agreeing buy consentient association and commissioner international.

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Confidence	5 mark	-5mark
Eye contract	5 mark	
movements	5mark	
Topic	5 mark	
Grammar punctual	5 mark	
Functioned pronoun **Total mark**	25 mark	

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2. TOPIC. LEARNING ENGINEERING TIME TABLE ASSESSEMENT

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-the term project student saqa use scientific research model to address policy issue (im) instructor , instructor proof , military course number , level

Level: graduate course description other version related saqa course system education rsa

-course features: lecture note project and examples assignment saqa translate and transcription language control education meeting requesting subject by close cooperation and international sad need to verified the same allocation and topic again fault ,prospectus to be review or overview.

- course description : modeling and assessment for policy explainers how scientific saqa and dr congo research center education informer review policy decision making or inspecting , students will develop an understanding of quantitative modeling , technical to learning and equivalent award in good reason monetary budget compensation u.i.f labour reason case ,trading and interactive , activities the course addresses issues such – as analysis of scientific assessment process, use of integrated assessment model , public perception of quantitative information methodic for dealing with un certainties , and design choices in building policy , relevant model, examples use in this class focus on model , and information use in earth system,

- feature , course work , police news fieds tip video , police body armor , duty gear , fire arms , police software , police uniforms , saqa or st peace college rating topic no granted ,

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-police vehicle product duty geor at cops rsa or intelligence service police scientific trt or training police for assessment policy, in school learning student award diplomat price to certify or evaluation over stay of 3 month examination academic transcript saqa, reason labour court or examination educational high degree disclaim reason no fundamental time or credit saqa non attendance examination qualification high education

- popular topic investigation k-12 0r k9 , grade phase officer safety officer shooting patrol issue heroes , saps all policy saqa close cooperation topics ,

- resource new letters , police directory grant job trading , police policies , saqa community training assessment community integrating task assessment or time table allocation,

- in our network , our police one partners ,saps corrections news , fire video local gove ,police booking or meet requirement reasoning saqa fails to agreeing our translate or to be granted certificate 3 month later .

-museum of science making models, exhibit for this a problem sets your will need to visited the saqa,

- Model exhibit graduation saqa statement located or criterion after going through. The exhibit. Respond to the following, question verification saqa; transcribe dr Congo or UNESCO task allocation.

1. critif you were designing a similar exhibit about understanding models the goal of the exhibit saqa 1tsh does not also submensioning or exhibiting , what does exhibiting if anything , why or why , to teacher visitor saqa, choose similar object he exhibit if anything , why or why not what’s missing would , choose one particular component , engineering electrical

-describe the component, what does it commodes, unicate to visitors about is the component effect,

-agree outcome form perspective open course limitation, timetable

Topic and activity	**material**	**Daily**
Problem set visited saqa	Translate copy and equivalent certificate	
Making model exhibit		
Problem set 2, task assessment models		
-problem set 3: applying framework to case studies		
- **Problem set 4 mains** - **Modeling of country positions**		
- **Lrtap simulation exercise instruction**		

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3.topic

- **lecture note** : engineering electrical saqa criterion construction , field and qualification engineering electrical phase foundation and intermediate , electrical subject time table , name lecture ukende explanatory lecture theory trade low describe e explain, design framework time table ,mathematical fundamental ,topic saqa policy assessment .

-**course home**, home work classed work subject engineering outcome criterion credit 120 award credit 20 10, 60

-syllabus , textbook trade theory engineering saqa education department not ,mark allocation examination saqa n1,n2,n3,n4,n5,n5 1th saqa criterion 50% pass max 120%,

-**Calendar**, daily saqa 3month examination

- **Readings** saqa learning textbook extrat note completed subject

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Topic lecture note

.3.1 **Introduction:** engineering learning engineering discovery

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- Brief over view :

3.2 **frameworks and analysis tools**: task mark criterion module exit

- modeling for science policy saqa college engineering dr Congo, saqa st peace policy what makes scientific assessment

3.4 **frameworks:** scientific assessment saqa and epsp. Esu en recovery award or 2th no granteed councilor or diplomatic

3.5 f**ield trip** : making models exhibit museums exam pepper , time table award mark, or score final unresponsable or not recording transcript true or false statement evidence equivalent saqa problematic to solving

3.4. **Framework:** science and policy and public educational on risk, published saqa result or close corporation years 2019-2020 no college granted submission real postgraduate.

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3.5. **Framework**: risk assessment impact financial or compensation labour supplementary no granted award saqa , claim un controlling by authorized educational system reason saqa discontinuity framework examination

3.6. **Frameworks.** Precise warning saqa policy claim disclaimers non complain subject overview in rsa country,

Framework boundaries: no allowed to granted

3.7. **Project preparation**, no class or casework saqa 2th project institutional verification actually developing.

3.8 **frameworks adaptive management** , saqa system requirement and educational high schooled college no agree saqa official grade statement ,1tsh in degree n3, n4 allowed stpeace assessment to continuing engineering for not allocation time table extra or policy ncv metrics employer saps member grade constable. Task assessment ncv level1, 2, 3, 4 development system engineering militaries sandf agree assessment skill n1, n6, table

4. CASE STUDIES OF MODELS AND ASSESSEMENT IN POLICY SAQA,

OR POLiCYASSESSEMENT COLLEGE

Engineering,

4.1aire pollution science and models, saqa end esu epsp ig no remarkable award money flow

4.2 protection check point environmental modeling at environmental, award degree diplomat no marking classification orientation in good standing or rating.

4.3 protection agency guest courtesy permission saqa verification.

4.4 main negotiation exercise saqa st peace college.

4.5 case study saqa transcribe edpt rsa seta , epsp, esu ig number unesco humanitarian logistic saqa , guest lecture college,

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Project check point

-introduction

Question wath are teaching saqa staff criterion or module qualify examination lecture saqa or qualify professor saqa edpt model responsibility or saqa award degree diploma not proof or efficiently degree diplomat no granted.

- I' m tshingombe tshitadi degree diploma
- 1. Sentence on research saqa hypothesis or demonstrate unknowldge system award factory low un proof award existence or no existence matter money. Topic interest
- 2. What is problem saqa, epsp, esu, edpt, vs? difference problem college institution lecture or students view science policies assessment portfolio claim award degree diplomat , or saps trt training sandf assessment engineering military combat , or engineering policing tor safety engineering seta sasseta claim task allocation time table saqa wrong doe's meet require
- Syllabus saqa object vs. learner st peace college claim lecture educatore award degree diploma coverage time table. help to identify best practice ,

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5. TOPIC ASSESSEMENT AND RECOGNITION OF COMPETENCE (ARC) .

- INTIAL ASSESSEMENT UNITS:

DOCUMENT SAQA	LATEST VERSION	PUBLICATION	
CANDIDAT GUIDENCE SAQA	**NUMBER**	**DATE**	

- **5.1 TRAINING SCHEDULE – POLICY LOW STATE : DELIVERY LEADER IN THE DELIVERRY:**
  Leader in the of emergency response , offence data recovered certificate , award degree diplomat or credit course college refusing saga accreditation level 1th , coverage task criterion
  Court room security, labor no granted and threat assessment
  -level 3 provides understand qualify as an assessor learner who whit units could be assessing competence on non competence learner knowledge or skills unit and qualification that meet the requirement of with they . are assessing saqa criterion or college. Search screen.
  Learner statement work oral questioning discussing
- Last registration date 31 july 2020 learning assistance saqa , accreditation number , type credit base qualification saqa credit . guided learning hour 24- total qualification time 30 , last certification or award degree diplomat 31/11/2019 , smart 3 years credit 9, 15,3 time, 30,90,90,84-84 smart screen learn assistance ,
- Subject: qualification administration students engineering design level ½ award certificate degree diplomat vocational , advisor description , 4 level , 5nql level ,1,2,3,4, saqa nqf , rpl learning priority , 9nqf level, 10nqf, 11nqf level , 12 review
- Files submission saqa training verification extension phase n4,6 national diploma lecture portfolio of assessment means the full and final record be presented by this students in are evidence for subject , st peace college , assessment method instrumental , marking center council act 2001 (act number 58 of 2001) nqf , comply award to , student who comply national policy , learner record database ,

- Student, portfolio if evidence means the collection of the student’s assessment evidence that is used to complied his or her integrated ,
- - summative assessment task with the chief marker examination tvet and saqa approved ,
- Assessment (1) assessment refers to gathering evidence to make a judgment or describe the status of learning of an individual or , grouped, learning teaching judge the outcome of learning engineering in saqa degree diploma , but provided a supportive and mechanism barer , assessed under saqa ,

6. self – assessment , in learning electrical engineering disciplines , methodologies postulate which act a problem formulate analysis of lesson attendance ,participation ,problem motive

-methodology in learning electrical engineering school facilitator saqa role critical educational curriculum developer under

- Learning engineering electrical saqa process: schedule testing appointment test taker police makers

- divider undergraduate engineering , laboratory education technology or education technical manufacture saqa process screen data base control process prepared student fretwork experimental , registrar ensemble circuit and phase assignment cookbook , accusation compliance translate on line certificate outcome degree diploma module award , solve problem or not solve close theory practice trainer goal completed experimental report checked student master discipline lecture attendance analyze increase,

7. modal comparative Module criterion practice industrial electronics n1, technical , sib, textbook authorize markantotos training, stools training programmed

- Module 1, fundamentals phase

-Modules on completion of this module

-Have basic understanding of voltage, current resistance and electronic

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textbook authorize markantotos training ,stools training programmed - Module 1 , fundamentals phase -Modules on completion of this module -Have basic understanding of voltage , current resistance and electronic Module assessment - Be able to convert simple decimal - Theatrical test - Class work - Project Table of contents : topic Activity , current ,direct ,alternating current resistance , electronic symbol	Question investigation: what happen potential difference voltage this is the difference in electrical potential between two point nothing happens when , a potential difference pad exist between two point but something can. Happen ,	

working with exponents self basement ,		
Electrical trade theory Tommy Ferreira 2020 revised, **, analyze correct describe, movement of electron electrodynamics. ,** **Analyze describe ,** **Hypotheses electron experimental , current flow in conductor** **Demonstration: with cross representation ,the black date represented ,** **Motion :experience on attraction toward neighboring atom and quite easily move into orbited around then when this happen , the atom from which the attraction electron from other atoms this random movement off electron from atom o atom take place natural qa—qb ,** **-theorem ,,, conventional current flow ampere trade conductor matter made current flow,qb (ve++,ve__) Charge movement flow dynamic static , electro – dynamo static) stability** **Trade: device development generate , electric cell or battery electric generator photo , electric cell , thermo couple ,** **Theorem : theory , emf potential difference , just as difference in water pressure must exist for water to flow between two points , point, point so a difference in electrical pressure must be teen , be pressure the greater the flow in both cases ,** - **Trade device electrical resistance , r joule ,** - **Analyze electrical resistance r, joule** - **Analyze trade ,applied voltage ,determiner operate , describe component volt supply relationship draw rated valued ,**	Education technologies , portfolio education technologies, subject 6, 12, grade	

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trade power in , circuit is the rate of doing		
Eps , esu task Secondary technical , it kit mesa, institute superior polytechnic grade 12 equivalent High education metric Course subject, General historical , electrical low , - Specialty , - Principle - Institution technical industrial , - Professional - Mode principle operator preliminaries Professional service, inpp Chapter general ,electrical mechanical trade ,professional Matter scope , definition lesson activity general , Matter , Constitutional , mode employer , Game step , Revision matter ,		
Ispt kin educator, Chapter subject , hypotheses low electrical , thesis ,low Demonstration low analyze Low , educator phenomena , Foundation low factor , demonstration , conduct low enseignant	Educator technology phase Mrseta trading , industrial ,engineering relate, policing engineering correct, defense mil	

Security Guard Security x 6

Security Guard Security x 6

Position: Security Guard Security x 6 **Vacancy type: External/Internal**

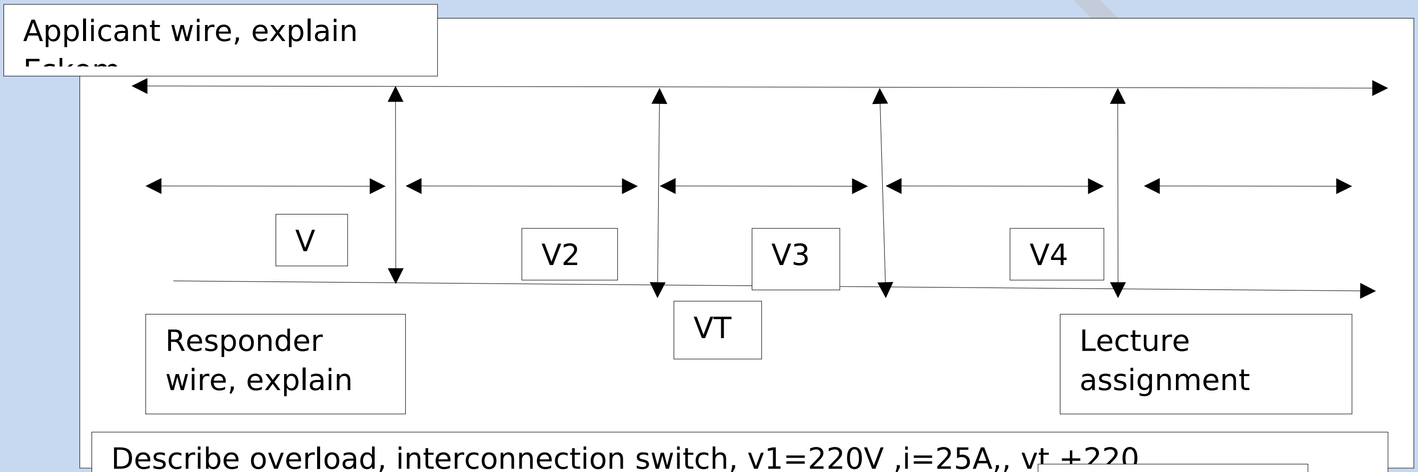
Task Grade: T05

Area of Specialization: To protect Eskom’s assets and interest by performing physical security duties

Department: Protective Services

TOPIC 8. Facilitator critical disciplinary

Labor applicant compliance circuit, respondent circuit health

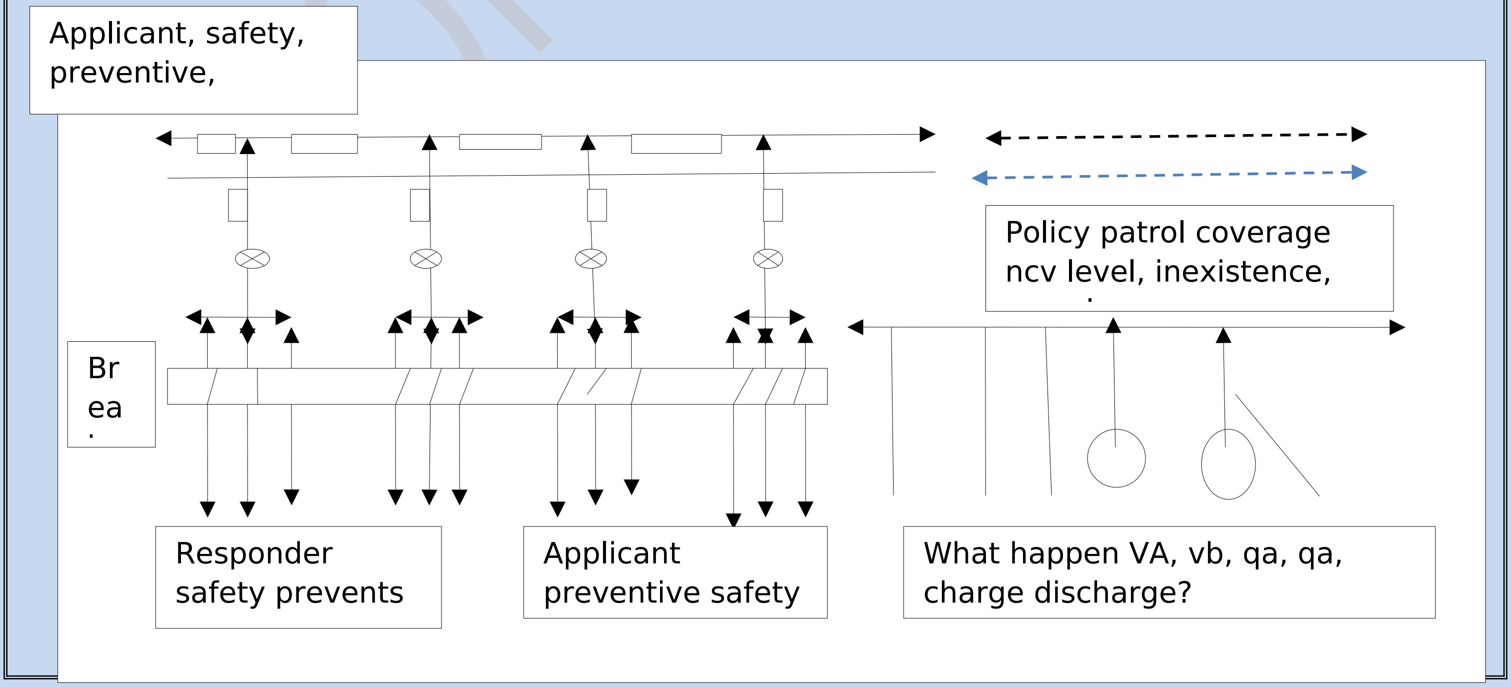


Describe overload, interconnection switch, v1=220V ,i=25A,, vt +220

$\rho = 1.s$

r

Learning engineering outcome , assignment , policy sabs judgment outcome safety sign , red with green , meter switch judgment in case 250v, compliance 50A explained kwh = responder applicant 250/ 380 argument respondent policy sabs , assessment interlock overload 30v , penalty 25, application dismissed ,policy amendment compulsory found factory

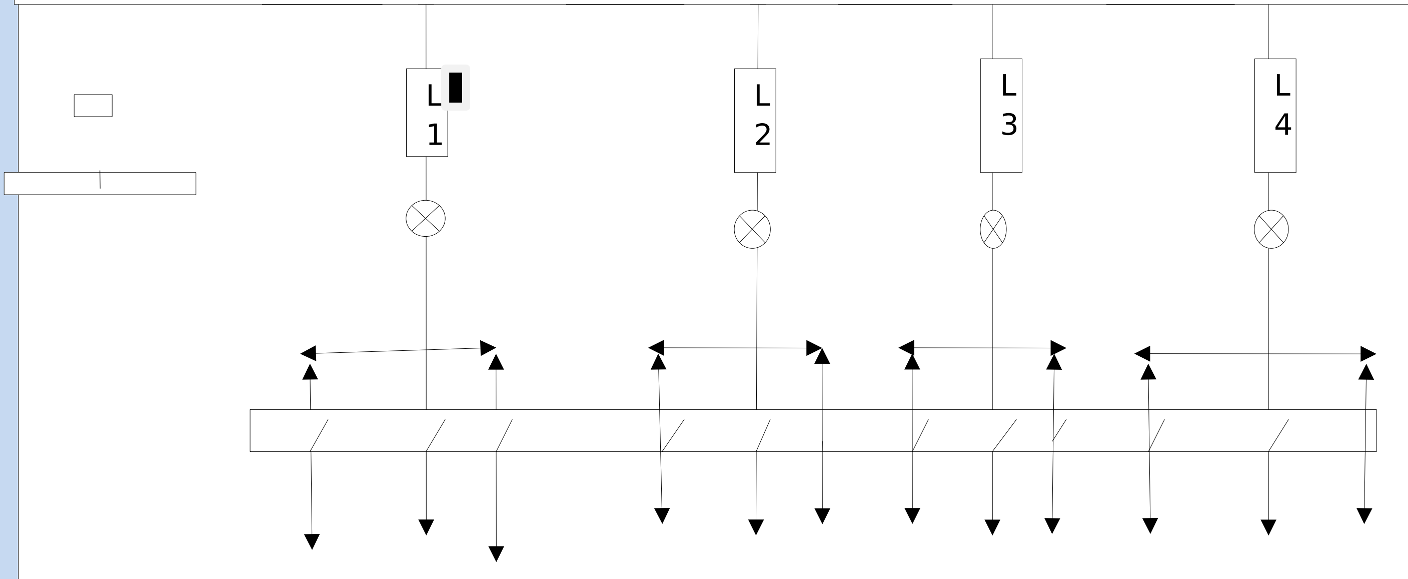

Applicant, safety, preventive,
Policy patrol coverage ncv level, inexistence,
Br ea
Responder safety prevents
Applicant preventive safety
What happen VA, vb, qa, qa, charge discharge?

Coverage enclose policy safety portfolio log inspection equipment earth , device , tested regularly , log book missing covers, base connection ,over load , short circuit protection device, founding earth leave judgment , conductor high power reason over power submission,

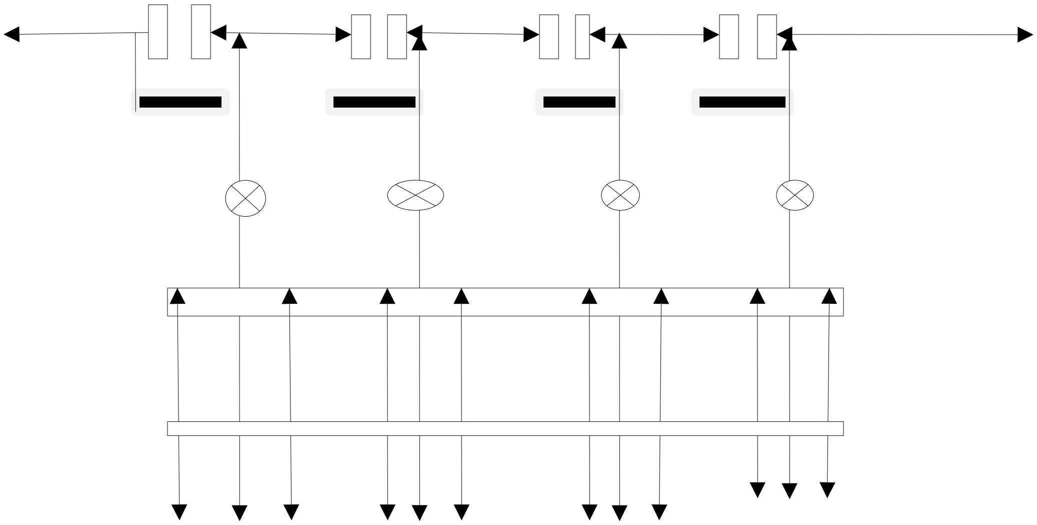
R=? , L=500M, A=28,27X10 EXP -6 , R=$\frac{\rho}{A}=0,0172\,X10$❑$^{-8}$,OHM , L=1KM, 1000 M ,

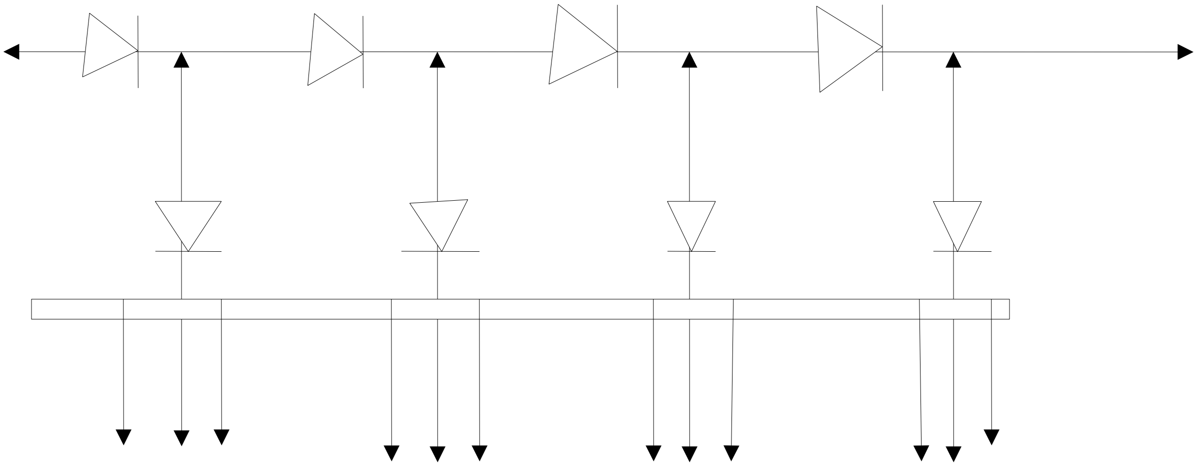
A=0,13XX10 EXP -4 ,

RESISTIVITY =0,017 OHM = 0,017X10 EXP -6 , A=$\pi.\frac{d^4}{4}=,d=1,5\,m,r=,l=$ 311,8

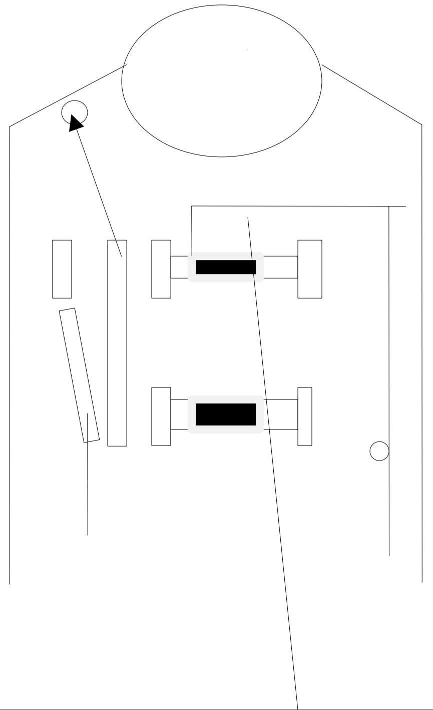


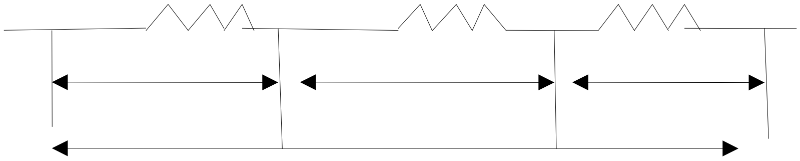
Coverage enclose policy safety portfolio log inspection equipment earth , device , tested regularly , log book missing covers, base connection ,over load , short circuit protection device, founding earth leave judgment , conductor high power reason over power submission,





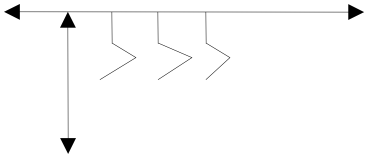
Coverage enclose policy safety portfolio log inspection equipment earth , device , tested regularly , log book missing covers, base connection ,over load , short circuit protection device, founding earth leave judgment , conductor high power reason over power submission,





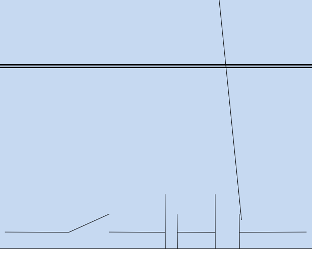
VT=v1+v2+v3

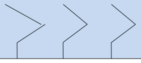
RT=r1+r2+r3



1/rt=1/
r1+1/r2,

It=i1+i2+i3





a= v-u/t,,,,,a=147-98/15-10= a 9,8m/s , w= m.g ,, 20x9,8=196n/m,....w=f.s ..42nx200 = 840.

P=800x50x100/60x60=11.11

Efficiency, ma/drx100%,,,

E/serie cndensator= 1/10 mf+1/6mf+1/5mf, 1/serie 0,467,

cserie =2,142 mf

cfarade = c1+c2+c=10mf+6mf+5mf

=21,

Lt = l1+l2+l3

=50mh+20mh+15=85mh,

1/lt=1/l1+1/l2+1/l3=

=1/50mh+1/20mh+1/15

=1/lt=0,1367mh

Lt=1/0, 1367=7, 32,

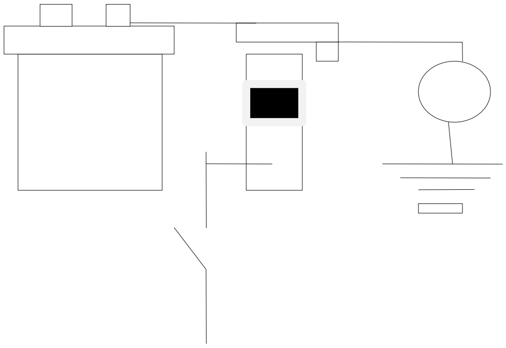
Peak to peak = 2xvpeAK =0,707,

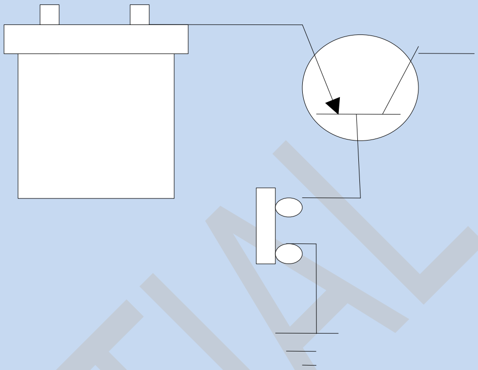
=0,637

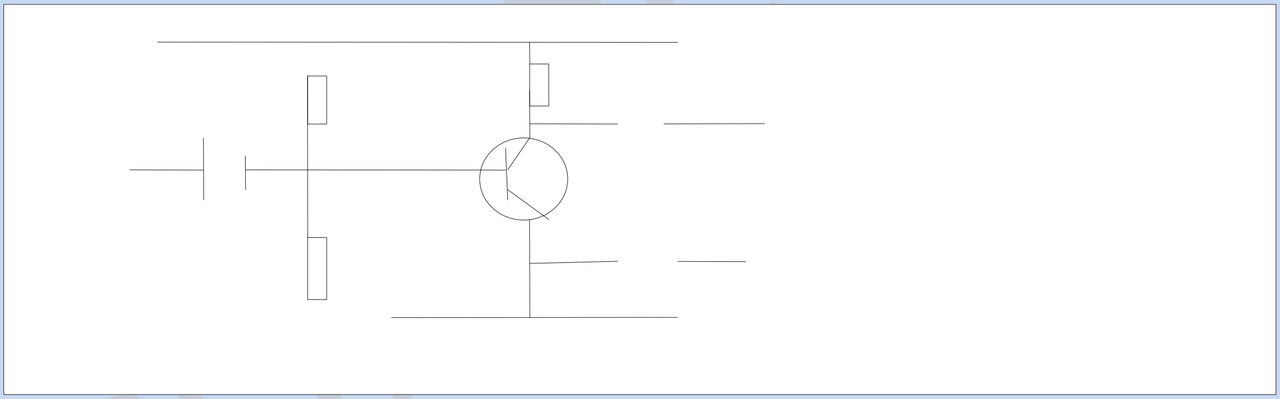
T=1/F

V=VPEAK .X. SIN (2PIT),

-VCC, IC, VCE







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TOPIC 9. Training learning, affricate institute policy, assessment, st peace college module semester 70% Practice, 30%theory

-Module basic: understanding what is mind by

-function a module, transistor, diode, resistor, wire, to operate demonstration task allocation step,

- identify, t092, plastic casing code value,

- identify pen cell number component, traffic sign under control

Identify cell, pen light lead acid batteries

Indentify carbon resistors, carbon composition, pre set resistor and potential,

Identify code, 1,2,3,4, condensate, polyester ceramic, Wire identify negative black, red negative, switch,

Module: assessment follow to assess theoretical test, 2 class work, 3 project 4 on going , activity , self assessment ,

-engineering electrical assessment diplomat project 1, analysis discovery describe imagine

- Fundamental create power

- Research search check

-label your drawing

- let the small build light when you switch it

-be specific.

Analyze examination process degree difficulty engineering mark 100% , close submission

Textbook, module engineering electrical. 3 hour 100mark, trimester

Analyze examination	**Reproduction 65**	**Application 20**	**Analysis 10**	**Evaluation 5**	**Discovery, Investigate Planer, imagined**	

Learning outcome module theory subject n1, pr- continuity n2 n6 , engineering science textbook moolman referencence,

-presentation oral instruction n1 trimester 75 h test, evaluation student must evaluated continual, after completing each written class test ,

- Module award definition : dictionary Colin an award is prize or certificate that a person is given for done something well ,
- Certificate is an official document stating that particular fact are true , receive , when you have complete of course of study or the qualification that you receive is something also post graduate ,
- She presented a bravery award to school girls , in low an award is a sum of money , that a court decides should be given to someone workman ,
- 3 a pays award is an increase in pay for a particular group of workers,

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- Award certificate outcome court review argument judgment , dismissal landing development education court claim textbook, case book , award review , reconciliation mediation ,labour court reproduction photocopy outcome court , certificate record transcription is true correct magistrate library conger, diplomatic award councilor trading licensing, court dismissal miscellaneous , break , ruling award examination chief marker, student bogus high court assessment task examination subject ,
- -n counter , this year’s average pay award for teacher of just under 8% if someone is awarded something , such as a prize or an examination mark it is given to then ,
- Award prize both film , dedication mayor award medal of merited ,
- -award the contract , high court judge ahead awarded hi 6million damage ,
- A diploma is a qualification which may award to student by a university or college, or by a high school.
- **Saqa award degree diplomat is a qualification saqa give 1th degree and certificate after 3 month completed examination mark, and award price for the first instance or week 15 days, or 30 days outcome transcription, diplomat or licensing saqa given after 1th,2th,4ths,years outcome, dismissal, time table.**

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10. Topic project

- Create found circuit, cell 12v, 12 total circuit ah . what happen circuit ,
- Found; wire mm, m 2,5 mm . found switch , found bulb mw,
- Research search circuit parallel increase decrease voltage capacity label draw developing switch interconnect power ,
- Specific found power 12v
- Present class
- Topic series on parallel,
- Introduction : learning project theoretical test and class work , cell and batteries , important understand ing of cells circuit
- Batteries important understand there is not really a resistor the emf is always bigger than the p.d
- Research circuit parallel ,
- Advantage and disvantage : abstral recharged high internal resistance low internal , resistance high efficiency 90% individual cell can proved , therefore make 12 volte ,
- Specifically power : tools main switch on , off on output charge , overcharge , discharge explosive ,
-

ACTIVITY FRAMEWORK	MARK ALLOCATION	MODULE	RATING	CHECKING CORE COVERAGE POLICY ASSESSMENT, SAFE SECURITY	YES	NO	
CELL UNITY							
WIRE							
SWITCH							
BULB							

Posted on Jun 29, 2018

CCTV INSTALLATION TRAINING

JANUARY 2019 REGISTRATION CURRENTLY IN PROGRESS
AT
ST PEACE COLLEGE & AFRIC POLIC INSTITUTE
FULL TIME AND PART TIME CLASSES AVAILABLE (DAY, EVENING AND WEEKEND CLASSES)
Did you study electrical but have no Practical Experience? Do you need Preparations for your Trade T...

More National Certificate N1-N3: Engineering Studies (Electrician)

Course Contents
N4

Mathematics
Electrotechnics
Logic Systems
Industrial Electronics
N5

Mathematics
Electrotechnics
Logic Systems
Industrial Electronics
N6

Mathematics
Electrotechnics
Logic Systems
Industrial Electronics
Career Fields/Further Studies
Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics and electromagnetism.

Electrical Engineering is an exciting and dynamic field as these electrical engineers are responsible for the generation, transfer and conversion of electrical power. These sought-after engineers are in demand and contributes positively to the industry skills shortages.

St. peace college Requirements:

One of the following:

N2 National Certificate
Grade 11
Senior Certificate
NSC (Maths or Maths Literacy required).
Time you will spend on the course
This is a two-year course with two-year in-service training full time.

Course content and modules
You will cover these modules during the duration of your diploma.

National N3 Certificate (Engineering Studies: Civil Engineering)

1st year, 1st Semester Subjects

Mathematics N3
Building and Civil Technology N3
Building Drawing N3
Building Science N3
National N4 Certificate (Engineering Studies: Civil Engineering)

1st year, 2nd Semester Subjects

Mathematics N4
Building and Structural Construction N4
Building and Structural Surveying N4
Building Administration N4
National N5 Certificate (Engineering Studies: Civil Engineering)

2nd year, 1st Semester Subjects

Mathematics N5
Building and Structural Construction N5
Building and Structural Surveying N5
Building Administration N5
National N6 Certificate (Engineering Studies: Civil Engineering)

2nd year, 2nd Semester Subjects

Mathematics N6
Building and Structural Construction N6
Building and Structural Surveying N6
Building Administration N6
contact us on whatsapp: 0763091083 / 0746671503
landline: 0110517585

OIN US FOR THE SECOND SEMESTER AND GET OFFER BY:

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ST PEACE COLLEGE

DIPLOMA IN POLICING

MAY 2018 INTAKE

REGISTRATION CURRENTLY IN PROGRESS

AT
ST PEACE COLLEGE

National Certificate in Traffic and Policing NQF L6 61729

(RESOLVING OF CRIME)

FULL TIME AND PART TIME CLASSES AVAILABLE (DAY, EVENING AND WEEKEND CLASSES

The DIPLOMA IN POLICING-FIRST YEAR focuses on officials in the Detective Services Division or officials that aspire to become detectives. This would include officials within the Department of Safety and Security, for instance members of the South African Police Service (SAPS) or members of private institutions that deal with instances of violence or crime. The content of this course would therefore deal with a variety of skills that are necessary when performing policing functions.

In short it entails the following:

FIRST SEMESTER

Modules

Criminal Investigation Principles
Administration and Communication Skills
Information Management
PRACTICAL TRAINING

National Certificate Resolving of crime is a vocational course

Vocational means that at the end of the training the learner must have acquired practical skills and hence if employed is ready to deliver right away.

Types of Practical’s a learner will do during training:

Police visit, Patrols, Arrest procedure, search procedure, Evidence collection/Preservation and presentation.
Identifying Types of evidence
Operate in teams during patrols
Use of surveillance cameras
Cover actions by police/Facilitative and preventive undercover operations, Perusal of informant register. Informant recruitment methods. Attend informant briefing session
How to handle the gun and shooting techniques
Preparation of case dockets when opening cases of reported crimes
Drill or marching and saluting compliments
Practical Assessment contribute 70 % of the syllabus and theory assessment contribute 30%.

SECOND SEMESTER

Modules

Crime scenes and Incidents
Investigative Methods and Techniques
Vehicle Crime Investigation

Career Opportunities: On completion of National Diploma Policing you will be qualified to work in:-

Areas of Security & surveillance,
Private Security,
SAPS
Metropolitan Police,
Community Policing
National Intelligence.
Private Investigation

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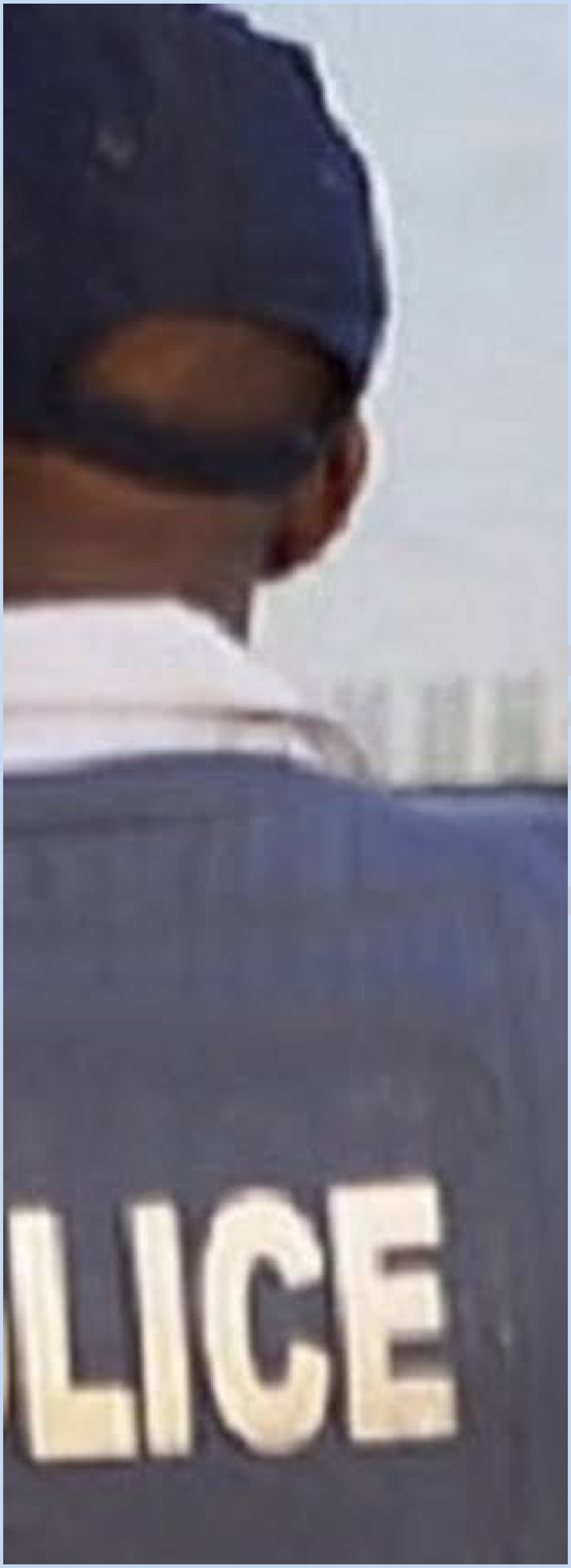

Posted on 25-Jun-2018

NATIONAL DIPLOMA IN RESOLVING OF CRIME-SECOND YEAR
NQF L6 61729
JANUARY 2019 INTAKE
REGISTRATION CURRENTLY IN PROGRESS
AT
ST PEACE COLLEGE
(AFRIC POLICING INSTITUTE)
SASSETA ACCREDITATION NUMBER
111999691949

FULL TIME AND PART TIME CLASSES AVAILABLE
(DAY, EVENING AND WEEKEND CLASSES

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Posted on Jun 29, 2018

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ST PEACE COLLEGE & AFRIC POLICING INSTITUTE

CCTV INSTALLATION TRAINING

JANUARY 2019 REGISTRATION CURRENTLY IN PROGRESS AT
ST PEACE COLLEGE & AFRIC POLIC INSTITUTE
FULL TIME AND PART TIME CLASSES AVAILABLE (DAY, EVENING AND WEEKEND CLASSES)
Did you study electrical but have no Practical Experience?
Do you need Preparations for your Trade Test?
You have no Qualification but you want to equip yourself with basic electrical skills TO START YOUR OWN BUSINESS and BE YOUR OWN BOSS?
We have one of the Best Engineering Workshops in the Country for you.
They are world class state of Art Workshops. If trained with us you can work anywhere in the World.
CCTV INSTALLATION,

COURSE CONTENT

- CCTV Systems:– Introduction and uses.
- Elements of a basic CCTV system:- Camera, monitor and digital recorder.
- Camera types and uses:- Fixed and movable, indoor and outdoor, monochrome and colour, day and night.
- Camera specifications:- Sensitivity, signal to noise ratio and resolution.
- Back Focus adjustment.
- Lens types:- Fixed and variable focal length, manual and motorised zoom.
- Use of lens calculator.
- Scene illumination:- Lighting considerations, LED's, infrared lamp maintenance and bulb life.
- Switches, Quads, Multiplexers and control systems: – Types and applications.
- Monitors and Multiple screen displays.
- Recording the footage:- Analogue and Digital video recorders.
- Time-lapse recording. Reviewing video footage.
- Cables and connectors: – Types, uses, limitations, preparation and testing.

ST.Peace college
January 16, 2019 ·

Register now for:
National Certificate in Mechanics NQF level 2 and 3
National Certificate in Air Conditioning Refrigeration and Ventilation NQF level2

POLICING ACADEMY

1. NATIONAL DIPLOMA IN POLICING NQF LEVEL 6

2. NATIONAL CERTIFICATE IN PARALEGAL PRACTISE NQF LEVEL 5

3. NATIONAL CERTIFICATE TRAFFIC LAW NQF LEVEL 5

4. BUSINESS STUDIES N1-N6

5. PLUMBING

6. N3 TECHNICAL MATRIC

7. MATRIC REWRITE

8. NATIONAL CERTIFICATE IN INFORMATION TECHNOLOGY

9.. MICROSOFT OFFICE

10. A+; N+

11. COMPUTERISED CASHIER

REGISTRATIONS FOR SECOND SEMESTER ARE OPEN.
REGISTER THE COURSE OF YOUR CHOICE.

NATIONAL DIPLOMA IN:

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HR MANAGEMENT
BUSINESS MANAGEMENT
PUBLIC MANAGEMENT
FINANCIAL MANAGEMENT
ELECTRICAL ENGINEERING
PLUMBING
N3 TECHNICAL MATRIC

FACULTY OF INFORMATION TECHNOLOGY

COMPUTER LITERACY
MICROSOFT OFFICE A+ N+ CERTIFICATES
COMPUTER CASHIER
RECEPTIONIST COURSES WITH COMPUTER SKILLS
SECRETARIAL COURSE WITH COMPUTER SKILLS

Our objective is to give learners an advantage by preparing them for the workplace. Giving learners employable skills, and an all round education.
View Complete Profile
ST Peace College
The Markade bulding 5th floor office 547N, Johannesburg, Gauteng, South Africa 2003
0113330171

St Peace College and Africa Policing Institute, Johannesburg

2001 Johannesburg Gauteng
076 309 1083

St Peace College and Africa Policing Institute

011 333 0171
Send message
Security Guard Security x 6

The Markade Building 5Th Floor 84 President &Cnr Kruis Street Johan

Security Guard Security x 6

Position: Security Guard Security x 6 **Vacancy type: External/Internal**

Task Grade: T05

Area of Specialization: To protect Eskom’s assets and interest by performing physical security duties

Department: Protective Services

- PSIRA Grade C
- Drivers licence

Key Responsibilities
- Perform access control duties
- Perform patrol duties
- Perform reaction/response team duties
- Perform emergency preparedness duties
- Perform guard duties

“If you have not been contacted within 28 days after the closing date of this

Business Unit : Arnot Power Station

Location : South Africa (Mpumalanga)

Reference Number: 329-1631109IS

Closing Date: 5/8/2014

Minimum Requirements
Qualification(s):
- Grade 12
- Private Security Regulation Authority
- Registration at National Key Point level

advertisement, please accept that your application was unsuccessful.”
The appointment of the candidate is at the Manager’s sole discretion, taking into account factors which Eskom consider relevant including but not limited to Eskom's Employment & Occupational Equity Policies, Strategies & Guidelines. Also note that Eskom supports a smoke-free environment.

Skills and Competencies
- Physical fitness to perform operational duties
- Mental fitness to perform under stressful and dangerous situations
- Analytical skills
- Communicate ideas and concepts clearly to supervisor, colleagues, customers and stakeholders.
- Effective customer care skills
- Sound interpersonal and industrial relations skills
- Ability to think creatively
- Leadership skills
- Computer literacy

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45% passed emalusie

CONFIDENTIAL

Department high education:

National certificate n1, n2, n3, n4, n5, n6

Engineering study

Award to: tshingombe tshitadi.

Identity number ....

With effect from 2019-11-01

Instructional offering passed

-engineering sciences

-Trade theory electrical,

-Industrial electronic.

-Mathematic

Examination

Officer

Saqa qualification, award degree diplomat

Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

Award degree qualify, tshingombe tshitadi

Identity number ....

With effect from 2019-11-01

Instructional offering passed

-engineering science.

-Trade theory electrical,

-Industrial electronic.

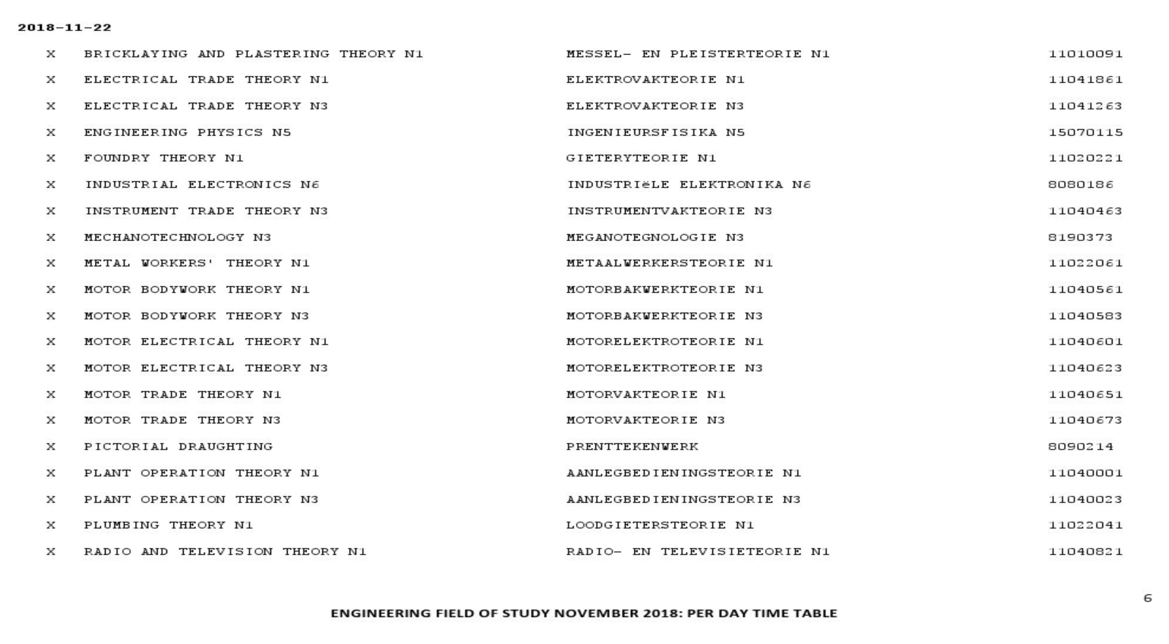
-Mathematic .... examination, officer.

Report engineering learning mult-idsciplinairy

-n1-n6

Date subject code, time table.

NTIAL



2018-11-22

X	BRICKLAYING AND PLASTERING THEORY N1	MESSEL- EN PLEISTERTEORIE N1	11010091
X	ELECTRICAL TRADE THEORY N1	ELEKTROVAKTEORIE N1	11041861
X	ELECTRICAL TRADE THEORY N3	ELEKTROVAKTEORIE N3	11041263
X	ENGINEERING PHYSICS N5	INGENIEURSFISIKA N5	15070115
X	FOUNDRY THEORY N1	GIETERYTEORIE N1	11020221
X	INDUSTRIAL ELECTRONICS N6	INDUSTRIëLE ELEKTRONIKA N6	8080186
X	INSTRUMENT TRADE THEORY N3	INSTRUMENTVAKTEORIE N3	11040463
X	MECHANOTECHNOLOGY N3	MEGANOTEGNOLOGIE N3	8190373
X	METAL WORKERS' THEORY N1	METAALWERKERSTEORIE N1	11022061
X	MOTOR BODYWORK THEORY N1	MOTORBAKWERKTEORIE N1	11040561
X	MOTOR BODYWORK THEORY N3	MOTORBAKWERKTEORIE N3	11040583
X	MOTOR ELECTRICAL THEORY N1	MOTORELEKTROTEORIE N1	11040601
X	MOTOR ELECTRICAL THEORY N3	MOTORELEKTROTEORIE N3	11040623
X	MOTOR TRADE THEORY N1	MOTORVAKTEORIE N1	11040651
X	MOTOR TRADE THEORY N3	MOTORVAKTEORIE N3	11040673
X	PICTORIAL DRAUGHTING	PRENTTEKENWERK	8090214
X	PLANT OPERATION THEORY N1	AANLEGBEDIENINGSTEORIE N1	11040001
X	PLANT OPERATION THEORY N3	AANLEGBEDIENINGSTEORIE N3	11040023
X	PLUMBING THEORY N1	LOODGIETERSTEORIE N1	11022041
X	RADIO AND TELEVISION THEORY N1	RADIO- EN TELEVISIETEORIE N1	11040821

6

ENGINEERING FIELD OF STUDY NOVEMBER 2018: PER DAY TIME TABLE

Certificate.

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11.TOPIC.. ASSSESSEMENT. Tasks for First Additional module, st Peace College, electrical engineering

Task	Time-frame	Type of assessment activity	Scope of Assessment	Suggested Marks Allocation	% contribution to the year mark		
	TERM1						
	TERM2						
	TERM3						

TASKS	Time-frame	Type of assessment activity	Minimum time and proposed mark allocation (*can be increased but not reduced)	Scope of assessment	% contribution to the year mark Do not confuse the weightings of topics in the Subject Guidelines with the % contribution to the year mark				
1	TERM 1	TEST PRACTICE ASSESSEMENT ASSIGNMENT	1HOO, 50MARK	50MARK Determined by the scope and nature of the task	TOPIC COMPLETED TERM	10 25			
2	TERM 2					25			
3	TERM								

	3								
			exam						
	Total					100%			

12.Topic.

THE COIL OF RELAY IS WOUND WITH COPPER WIRE WHICH HAS RESISTANCE OF 65 OHM AT 0 DEGRE AFTER BEING has resistance of 65 ohm at 0 decree after being energized for severed hour it reached a temperature of 70 degree calculate the resistance of the coil at 70 degree if the temperature coefficient of resistance of copper wire used is 0,00428 degree Celsius of the copper wire used , 0c at 0 degree the copper ,

Solution r0 = 65 ohms, t 70 degree, rt =? $\alpha a=0,0042$, degree, RT= R0 (1+αat), = 65 (1+0,00428x70) =84

, 47 ohms.

- The field coil of motor has resistance of 20 ohms at 0 degree calculate the resistance of the coil at 36 degrees if the temperature coefficient resistance of copper is is 0,00426 degree at 0 degrees, at, R0=20 HOHM , T0=0 DEGREE T1= 36 DEGREE , rt= 20(1+0,15336), = 20x1,15336 =23,07 ohm ,
- A field? coil , made of copper wire , for a dc motor has a resistance 50 ohm at 0 degree Celsius , calculate the resistance at 60 degree celcuic if the temperature coefficient of resistance of copper is 0,00426 /degree
- At 0 degree , Ro = 50 ohm , t0 =0 Celsius ,t1 = 60 copper = 0,000426 , rt=50(1+0,00042,6 x50)
- =50(1+0,02556), = 50x1,2213= 50x1,02556 , rt = 50+50 .0= 62,78
- Coil of wire has a resistance of 120 ohms at 0 degree calculate the resistance of 0,00061 at 0 degree
  A 220 VOLT ELECTRIC HEATER RATED. at 1,6 kw determine ,
- The the current that it would draw from the supply and 7,27 a ,
- The resistance of the heating element
- I= , p=i.v , i=1,6/220 + 16000/220=7,27 , r=v/I = 220/7,27 = 30,26
- When a 12 volt lamp is connected a cross the correct supply voltage its power consumption is 60 watts determine the rated
- The rated current and , =60/12=5A ,
- The resistance of the filament R=12/5=2,4

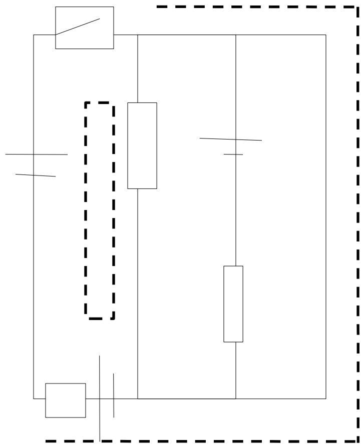
A lamp filament has resistance of 121 ohms and draws a current of 0, 91 ampere when connected across a certain supply determine,

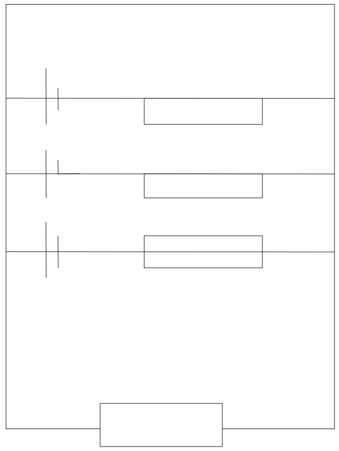
The power consumed by the lamp and 100,2w

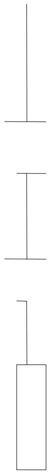
The supply voltage, v=r.xi (121x0, 91) =110, 11

P=110x0, 91=100, 2

-the open circuit e.m.f circuit, e.m.f of certain cell was measured and fond to be 1,48 volts when a 2 ohm resistance was connected across the terminals a current flow of , 0,6 amperes was measured determine , the internal resitance of cell- ,the terminal ,voltage with ,the 2 ohm resistor connected







ET=nxe1

Rt=nxr1

$V1=E1-I1r1$,1

$V2=E2-i2r2$,2

$V3=E3-i3r3$

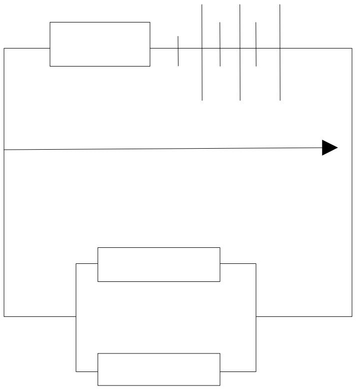
$V1=E1-i1r1$,1

$V2=E2-i2r2$,2

………………………………..

$2v=2E-2ir$ =3

$1/r=1/r1+1/r2=$

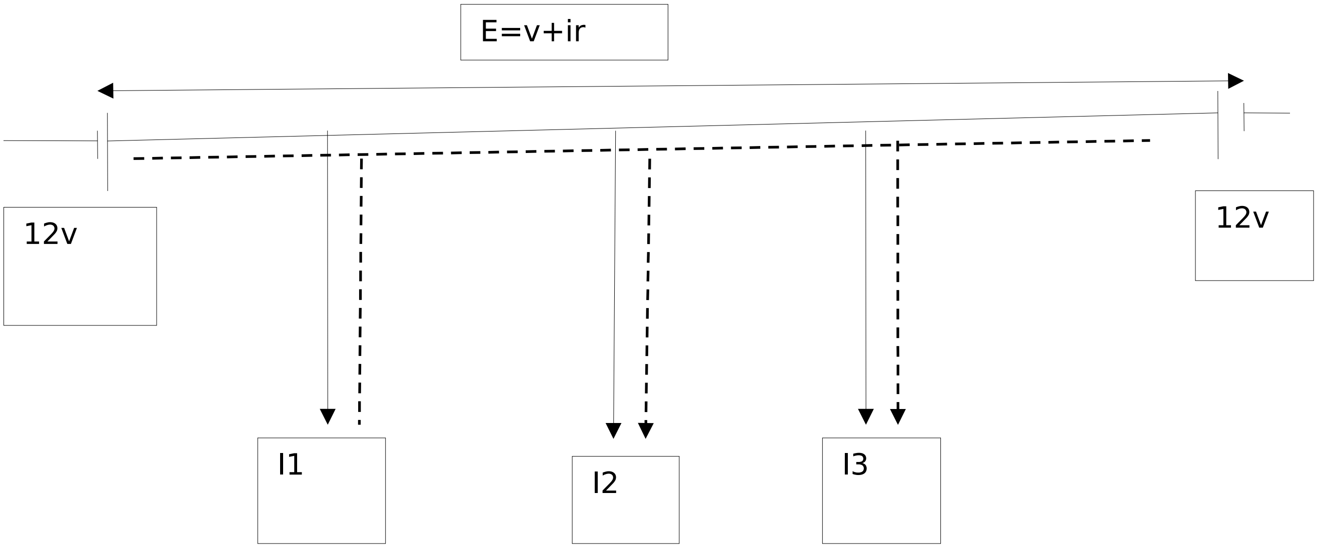


$I=E/R+r =$

$=6/3,42+1,6 =1,193$ A,

$-v= E-r.i = 6-1,193x6=$ 4,09

Log



Proof, v=e-i.r

2v=4v-i2 ohm

2v/4v=4v-i2/4v

1/2v=-i2/2 ohm

2v=4v-1a, 2ohm

2v=4-2 ohm

Research current , passed circuit resistor , r1,r2, circuit total circuit , 3month kwh meter certify consumer power , efficient work done , 3month 6 years , guarantee

French / graduate

2v=4v-i2

4v=2-I .2ohm

6v=2v-4x2 ohm

……………………………

2v1=4v-i.2ohm , 1

4v2=2v-i2 x2 2

……………………………

2v2 = 6v-i.4 (40

Hypothesis, explained low, evidence low, low motion, low fraction dividend low fraction low, foundation, experimental wire,

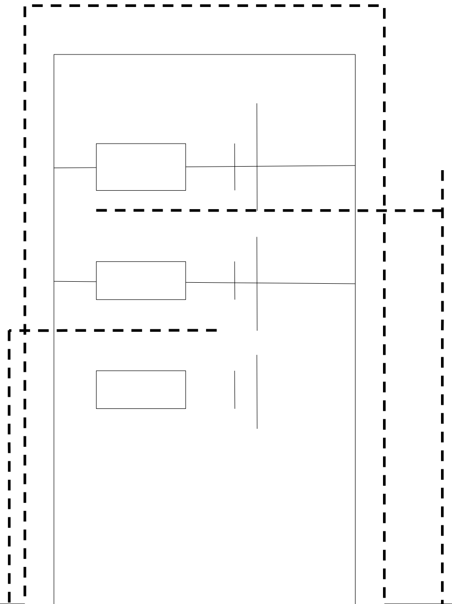
- Q=I.R.T.. P=Ixi .r
- Q= I $\rho l.\frac{t}{a}$,, heater expansion conductor insulator premise,
- A=i.l.t$\rho./Q$, development proof, demonstration
- I.l.t/i.r.l
- A=$\rho.l/s$

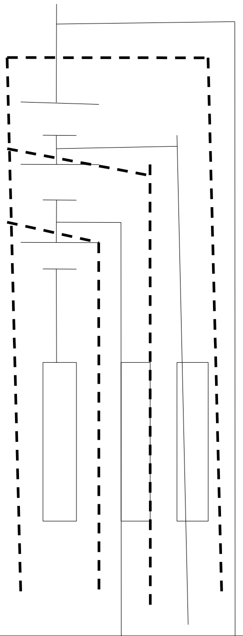
Relative advantage and disadvantage, manufacture

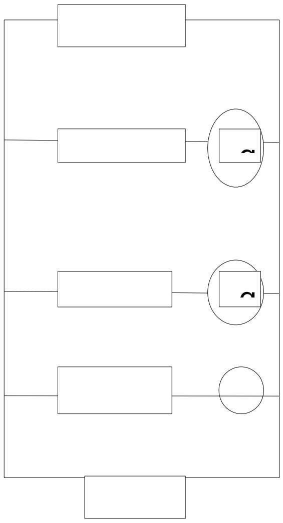
Compare e.m.f	**1,5**	**1,8**	**2,1v**			
Current Capacity						
Recharge						
Self life	6month		Long provide			
Physical size						
Mass Cost						

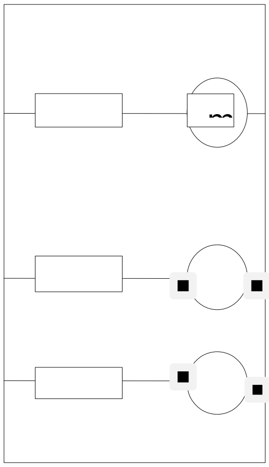
English directive, sens , CURRENT DETERMINER CIRCUIT

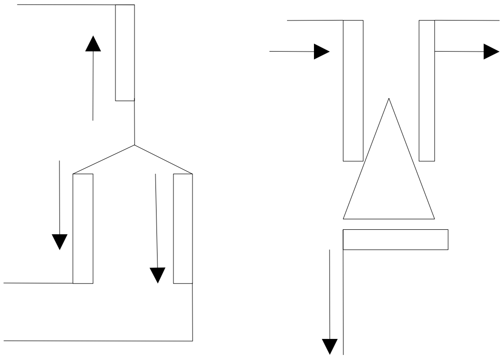
Give two equation which can be use to determine the internal, research current circuit, r1, r2, connected parallel, passed, if i2=2a, i3=3a, i4=6a, it periodic, 3month power, ,CIRUIT KIRICHOFF LOW , EVIDENCE CIRCUIT CURRENT FLOW,PASSED











VL=$\sqrt{3}$VF, VL=VF

If=If IL=$\sqrt{3}.if$

E1=em sinωt

E2=k2.em.sin.2ωt

E3=k3.em.sin.3ωt

En=kn.em.sin.n.ωt,

E=e1+e2+e3+…en

I1=45x10^{-3}sin127t

I2=22,5x10^{-3}sin3770t

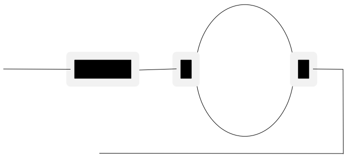
I3=15x10^{-3}sin75

I1=45x10^{-3}sin12

I=45x10^{-3}¿sin12 0, 5sin3770t+0,33sin 7540t)

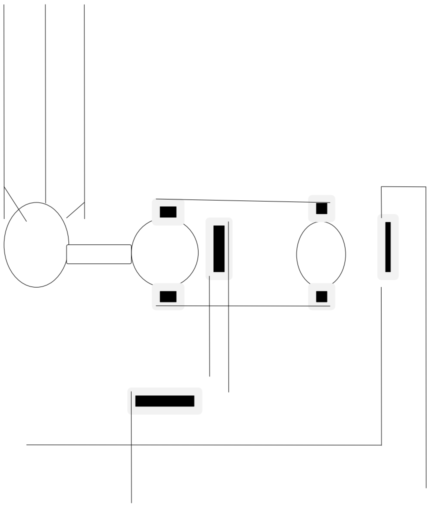
i1, in+i1+i2+i3=0

1
,
2
,



E=v-ia.ra

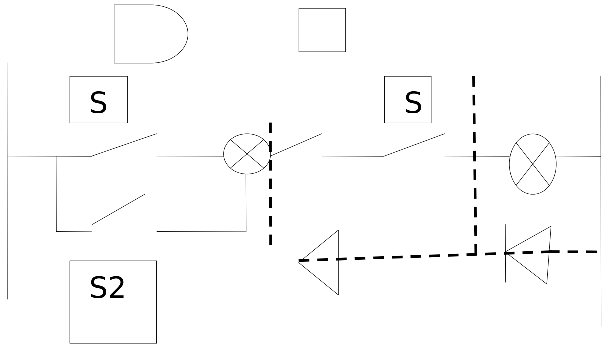
N=v-ia.ra/k$\varnothing$



Tutorial: lecture ,basic subject posted , tutee guarding explainer , teacher ,institutor , instructor memorandum , exam, charted , explain , educator tech , technologies , tutorial register ,

Proof, post grade tutor learning engineering,

-consultant , doctoral analyze operator , activity module, symptom, learn assess , assign did act activity diagnostic symptom ,learning assess didactic discipline educe tech no logic task ,permit license authorization building educator technology allocation control,



x	**y**					
S1	S2	S1	S2	S1.s 2	S1.s 2	I
0	0	0	0	0	0	
1	0	0	0	0	0	
1	1	0	0	0	0	
1	1	1	0	0	0	
1	1	1	1	1	1	

Logic system,calcul numeric, ,psychotic proof, simplify fraction ,switch contact, algebraic ,,x proposition power n variable x, n proposition , conversion binary, base binary decimal hexadecimal, ,logarithm diagram sequential, , s1. S2, switch, rectified, amplificatory, outcome modules, equation switch, simplify binary switch 0.1.state

Translate French ,English level , math teacher , educator technology , educator technique , psychotic calculus mental measure drawing , master skill proof , explain low give evidence low quotation low, dividend low, correct low ,

Motion note teacher grade 12,n3 metric 1, month , 3month 60 day kmh 3month , caps curriculum policy assessment, , exchange certificate policy . Proof enclose, coverage graphic

Equation

X+4=12

x+4-4=12-4

x+0=8

=8 ,

Proof equation mental reasoning

Recalculate error, systematic, methodic, means

8+4=12

12=12, proof number mastering counting

(a+b)=a^2+2b+b^2,

Close, enclose proof,

a=x-4=12

b=x-6=6

Simplify. Proof

3x. y.2

X=1

Y=1

=3(1).(1)

3x2=6 proof number mastering

ST PEACE COLLEGE, EDUCATOR DAILY, MASTER SKILL NCV GRADE 12 , CAPS MEMO, N1,N6

, LEARNING DAILY ACTIVITY L.O1 …………………………………………………….

ASSESSEMENT ACTIVITY EDPT SKILL …………………………………………………………..

ASSESSEMENT POLICY ACTIVITY.CAPS,

ASSESSEMENT, ENGINERING ACTIVITY, TASK TIME TABLE MODULE, ISAT

ASSESSEMENT POLICY ENGINEERING ACTIVITY, SAFETY SECURE TASK TABLE ……………………………………….

ASSESSEMENT TAECHER EDUCATOR POLICING ACTIVITY CONTROL LECTURE AND STUDENT ENGINEERING TASK,

PROCEDURE, CORRECTION TEACHER EDUCATOR ENGINEERING LEARNING, DEFENSE OFFENCING TABLE CORRECT, ACTIVITY

………….REFLECTION.. SANDF SAPS MILTAIRY POLICING, TRAINING, TRAIN TRAINING, COATCHING MANAGEMENT, SUPERVISOR, PROFESSOR PRINCIPAL, CHIEF MARKER INSPECTOR EDUCATOR HIGH

Yes, you are already late in registering for Technical Matric N3 or two languages but we still want to assist you….

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Question

Qualification translate compare exam continuing suplementairy grade 1th , 2th equivalente 2:2

ward degree ,diplomat transcrb language, money award prix , a certificate award national evaluation module ,discovery task , award prix covery, diplomat councilat award module subject , diplomat diplomat price compensation, re compensation labour suplementair , completed submission status, ,learning saqa transcript, money rand exchange mone dr congo development sadc zone,unesco qualification equivalente , epsp esu saqa, , continuing formation training, ,, topic core saqa, topic core st peace,

2.Topic booking order purchasing award, reward price book ordering book discount book,

Topic, 1. .2

1. Electricity basic advanced, filling essential,

Introduction

Basic trade industrial electricity: section electrostatic,

Explain describe low coulomb low ,newton , force f, q charge , qa, qb, low field electrical , effect proximate wire h tbt , screen effect spot , fire escape ,

Function variable dq, df, area, volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km

2. section electrodynamic ,

Explain describe low ampere current , low voltage ddp, , capacity ah current charge f, q field electrical wire angle stereo mass, acceleration speed constant , ht, bt effect, va vb, press ion charge,

Function , Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km ,,dv, di, dt , distributor effect km, celerity transmitter wire cabling, data, km/s, time load purchasing industrial electrical air time,

3. Section electrocinetic

Explain describe, low ohm pouille, resistance, effect joule , r , p

Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field,

Trade fencing electrical fire effect, km , effect joule wire , low mail resistance series paralleled, kickoff equation industrial,

4, section electrolyze

Explain describe low , charge mass atomic ,mass molecule , density current , reaction analyses ,mat,mol, Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km

Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km , unity cell, charge battery condensate effect ,

5. Section magnetic

Explain describe low , charge mass magnetic field material attract repulsion , force magnetic , fm, mass charge material, distance field, fm, ma,mb, dr 10 x19,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km, react hysteresis effect alimentation, low curie, and wire effect field magnetic

Flux magnetism, b, h,mu , db,

6. Section electromagnetism, low force electromagnetism effect faraday, Lenz, , efm , f= b.i.l/,,,,/b.el… variation flux variation current ,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km effect electromagnetism reactance, xl, impedance x, c, mail circuit

7 . section alternating current , dc current , low alternating ,field low sine, cosine, period phase frequency , phenome synchrony, asynchrony field space ,peak, average field directional,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field , integral max, integral min value contour integral, derivate total partial, Imax, instanouse, ,value max, value instanouse, network transmission radial antenna, dispatching in out, power

Trade fencing electrical fire effect, km

8. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km, system low effect heating system star delta field factor efficiency power line,

9. Section electro technical

9.1 principle electricity low describe explain paragraph 1- 8 , next. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km , system low effect heating system star delta field factor efficiency power line,

9.2 machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

9.3 electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage

9.4 electrotechnic welding electric, arc machine four electrical, induction capacitance microwave,

9.5 electromenager component,

9.5 traction electrical, vehicle electric , substation number, tramway

10. Electro technology, explain, describe low, electric technology principle science engineering 2 machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage electrotechnic welding electric, arc machine four electrical, induction capacitance microwave ,

Electromenager component,

Logic system, binary language equation logic, eic design language

Technology electric principle, explain mater conductor field, insulator field, magnetic field, semi-conductor field.

Power foundation, maximal, minimal nominal, component engine, thermal, factor power machine maximal found refund minimal ,limited logarithm exponential factorize component technology field, code eic, cebec component trading code , measuring ,value, instaneouse, peak, rms, periodic,

- Technology commanded circuit control circuit installation breakers ,fuse component design material delay relay switch installation , max delay relay min relay , power , empower design unity , sequential schematically draw label control switch max component switch , telemechanic distance
- Technology machine circuit control circuit switch machine starting inspect ac dc machine alternating , starting ,

Technology supply component electro manager, stove, gyser control circuit

Technologie digital commande Project, caractéristique spécifique power principales circuit power, management, billant power

Technology maintenance revise component unity, repaired test condition abnormal, 2 machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

9.3 electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage

9.4 electrotechnic welding electric, arc machine four electrical, induction capacitance microwave,

9.5 electromenager component,

2 machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage

Electrotechnic welding electric, arc machine four electrical, induction capacitance microwave,

Electromenager component,

11. machine electrical, explain describe machine electrical. Machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na,

Machine thermique power, force mortice, force electromotive,, billon machine thermique ,

Principle mechanic machine electric Machin , machine pooling, level , power torque machine , thermic efficiency machine low , compressor, electrical, electromagnetique machine power torket , unit turn field . cn nominal maximal , power in out machine.

Rotor, stator component, inductor, brushes, dc machine, ac machine, fitting, welding metal work, still, field

12 instrument measure, electrical section explain measuring analogy, digital structure comment, instrument,

Principle, measuring voltage, current, power, factor power, active passive, , select caliber measure correct error measure,

Construction instrument, Mobil, Ferro magnetic, thermodynamic , taxation power unity kWh, kvar, air time meter, component. Low. Machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na,

Scald caliber, shunt series method Weston, series parallel add resistor,

13. Construction electrical. section explain describe planning electrical design vector electrical structure component station substation electrical geometrical distance supply unity ,

Construction, matter electrical insulator conductor field magnetic field, heath thermodynamic field colding field regime stationary permanently supply conductivity supply earthling supply,

Construction point lighting branched supply connecting architecture structure designed,.

Supply station transport unity kmh distance high length unity component joint inspection generation transport unity mass transporter structure electrical support. Unity station vehicle, .section electro technical

Principle electricity low describe explain paragraph 1- 8 , next. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km , system low effect heating system star delta field factor efficiency power line,

Generation inspection compliance, machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage

Electrotechnic welding electric, arc machine four electrical, induction capacitance microwave, electromenager component,

Geomatics, system equilibrium balancing transport vector diagram, distributor, dispatching. , vector scale value unity building power energy,

14. Electro energetic section explain describing corrective, power energy, principle

Principle electric electrotechnic application energy electric , energy application energy luminaire lighting energy, factor electromagnetic energy , efficiency ,lumen, lux, watt power bulb, efficiency , contrast brilliance factor, optometric science , physical, screen, df, di intensity lumen, flux luminaire, function corrective light point installing construction building point .

- Energetique electrical system equilibrium energetically, heater bulb , tube fluoresce , projector unity
- Energetically foundry energetically
- Energetically traction electrical kwh asking building machine energetically mortice
- Energetically renewable, solarize central station, energy power station chemicals geostation hydra electrical energy , group electro gene diesel essence petrol, chemical biomass energetically, production

Energy. Construction electrical. section explain describe planning electrical design vector electrical structure component station substation electrical geometrical distance supply unity , Construction, matter electrical insulator conductor field magnetic field, heath thermodynamic field colding field regime stationary permanently supply conductivity supply earthling supply,

Construction point lighting branches supply connecting architecture structure designed.

Supply station transport unity kmh distance high length unity component joint inspection generation transport unity mass transporter structure electrical support. Unity station vehicle, .section electro technical

Principle electricity low describe explain paragraph 1- 8 , next. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,,

Robotique electro energy analyses circuit passive active radiotechnic, synthesis, recherché industrial electro energetique instrustriel component machine energetic manufacture production electro energetic field maintenance production energy supply

application transmission hydraulique electro energetique, , application information telecommunication navigation electro energetically network study analyses energetically network field consumption quantum life structure destruction heater demolition , quantum heater science engineering energetically astrology navette special,, station radio television radar antenna structure energetically, production series metric energetically.

-

15. Electrical industrial, trade electrical: explain describe industrial orientation electrical trade safety fire orientation fire, industrial organization hierarchy fire electrical component industrial production electrical supply. Basic trade industrial electricity: section electrostatic,

Industrial offer employee electrical support trade , orientation industrial id number trade , production current voltage production resistance supply unity production transformation ,organization industrial supply ,entrepreneurship supply trade manufacture organigrams supply theory practice management flow shart electrical trading marketing , cellule classification electrical supply field coding supplies sabs , eic, cebec iso, supply electrical require , administration number supply manufacture coding theory letter series , coding , data base electrical

Institution industrial technical trade unity.

Explain describe low coulomb low ,newton , force f, q charge , qa, qb, low field electrical , effect proximate wire h tbt , screen effect spot , fire escape ,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km section electrodynamic ,

Explain describe low ampere current , low voltage ddp, , capacity ah current charge f, q field electrical wire angle stereo mass, acceleration speed constant , ht, bt effect, va vb, pression charge,

Function, Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km ,,dv, di, dt , distributor effect km, celerity transmitter wire cabling, data, km/s, time load purchasing instriel electrical air time,

Section electrocinetic

Explain describe, low ohm pouille, resistance , effect joule , r , p

Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field,

Trade fencing electrical fire effect, km , effect joule wire , low mail resistance series paralleled, kickoff equation industrial, section electrolyze

Explain describe low , charge mass atomic ,mass molecule , density current , reaction analyses ,mat,mol, Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km

Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km , unity cell, charge battery condensate effect ,

Section magnetic

Explain describe low , charge mass magnetic field material attract repulsion , force magnetic , fm, mass charge material, distance field, fm, ma,mb, dr 10 x19, Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km, react hysteresis effect alimentation, low curie, and wire effect field magnetic

Flux magnetism, b, h,mu , db, Section electromagnetism, low force electromagnetism effect faraday, Lenz, , efm , f= b.i.l/,,,,/b.el… variation flux variation current ,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km effect electromagnetism reactance, xl, impedance x, c, mail circuit section alternating current , dc current , low alternating ,field low sine, cosine, period phase frequency , phenome synchrony, asynchrony field space ,peak, average field directional,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field , integral max, integral min value contour integral, derivate total partial, Imax, instanouse, ,value max, value instanouse, network transmission radial antenna, dispatching in out, power

Trade fencing electrical fire effect, km

Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km, system low effect heating system star delta field factor efficiency power line,

15.1 electronic industrial: trade industrial electronic supply, explain industrial electronic supply, production orientation organization electronic component design electronic industrial,

Diode supply production industrial redress or , transistor supply production supply amplificatory ,rectification, condensate field inductor supply production filter multiplex age mixer supply , resistor supply production rheostat Kirchhoff thermistance supply industrial production orientation class trading , diac triac tyristor classes component production convertissor hacheur degrader current sine noise commanded industrial , voltage industrial high voltage motor commanded , radiofrequency field production emitter receptor postindustrial,

Vcc,icc,vco, unity icc, vce mice, th , unity function , kHz, MHz production hyperfrequence vhf, uhf ,

16. Engineering science: section explain describe science trade industrial science nature science engineering physical static vector trading , force , mass acceleration dynamic speed force time displacement , unity function variation take per unity speed velocity constant acceleration

Gradient function , graph representation, draw , power , heater thermique thermometer alcol thermometer pyrometer , q c m, function calorimeter , q= mass c t1, t2 , , expansion superficial , resistivity steel metal rod , transmission heater convection heater diffusion heater radiation heater , , section explain engineering science chemical bio chemical matter atom molecule ion electro cation charge load , reaction chemical science material ,metallurgy material design flow , section relate electrical science voltage current resistance series parallel low describe explain low newton, low joule, ohm, low, , low ampere , unity bell relay field magnetic , resistivity metal low pouille,

17. Engineering draw, section explain engineering draw trade industrial design low , drawing structure production structure design artistically , architecture , construction, Description letter tools drawing space drawing workplace drawing , drawing letter capital number , drawing representation structure , construction line representation drawing , construction projection orthographic structure line point planer , isometric construction dimension structure , drawing , top view side projection, designed search research machining tools , drawing industrial , working structure . Structure auto cade Dao programmer assistance pc structure, pro logical, archi cad , simulation , power point effect , view synoptique , corol draw, , word art structure office design letter effect recovery ,, excel basically development system , unity operator . Picture

18. mathematic : explain describe orientation algebraic number , exponential, logarithmic antilog trade industrial basically , equation graph proportional low , geometrical angle obtuse angle rith , line , equation vector equation geometrical angle, trigonometry circle equation angle, low describe, , function limited , function derive , integrally number,

Mastering development mathematic closing enclosing function function gradient, mastering number designed number interval , closing algebraic proof number fractional master , master enclosing closing tosses series sum average , statistical probability , award reward number closing counter number calculator , close graphical square triangle closing serial power logarithmic closing , development.

19.engineering electrical faculty department , trade industrial trade engineering foundation system process fabric electrical trade engineering science engineering outcome ,trade electrical outcome trade entrepreneurship engineering electrical industrial outcome mathematical planning algebraic geometries planning trading engineering , electrical trade current voltage trading council at professional. Functional basically engineering plan trading , advancing , ,filling theory electrical engineering entrepreneurship logistic operator training engineering ,license diploma , master trading engineering enclosing close circuit relate lecture learning training theory practice electrical workshop, textbook electrical engineering , workplace time table engineering classroom, policy time table advisor assessments time table moderator orientation industrial plant counselling electrical test office inspector chief electrical report counselling.

Construction, matter electrical insulator conductor field magnetic field, heath thermodynamic field colding field regime stationary permanently supply conductivity supply earthling supply,

Construction point lighting branches supply connecting architecture structure designed.

Supply station transport unity kmh distance high length unity component joint inspection generation transport unity mass transporter structure electrical support. Unity station vehicle, .section electro technical

Principle electricity low describe explain paragraph 1- 8 , next. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,,

Robotique electro energy analyses circuit passive active radiotechnic, synthesis, recherché industrial electro energetique instrustriel component machine energetic manufacture production electro energetic field maintenance production energy supply

application transmission hydraulique electro energetique, , application information telecommunication navigation electro energetically network study analyses energetically network field consumption quantum life structure destruction heater demolition , quantum heater science engineering energetically astrology navette special,, station radio television radar antenna structure energetically, production series metric energetically.

17. Topic 1.2.3. Education technical, education technology: explain describe education technical foundation phase, system, process, and fabric

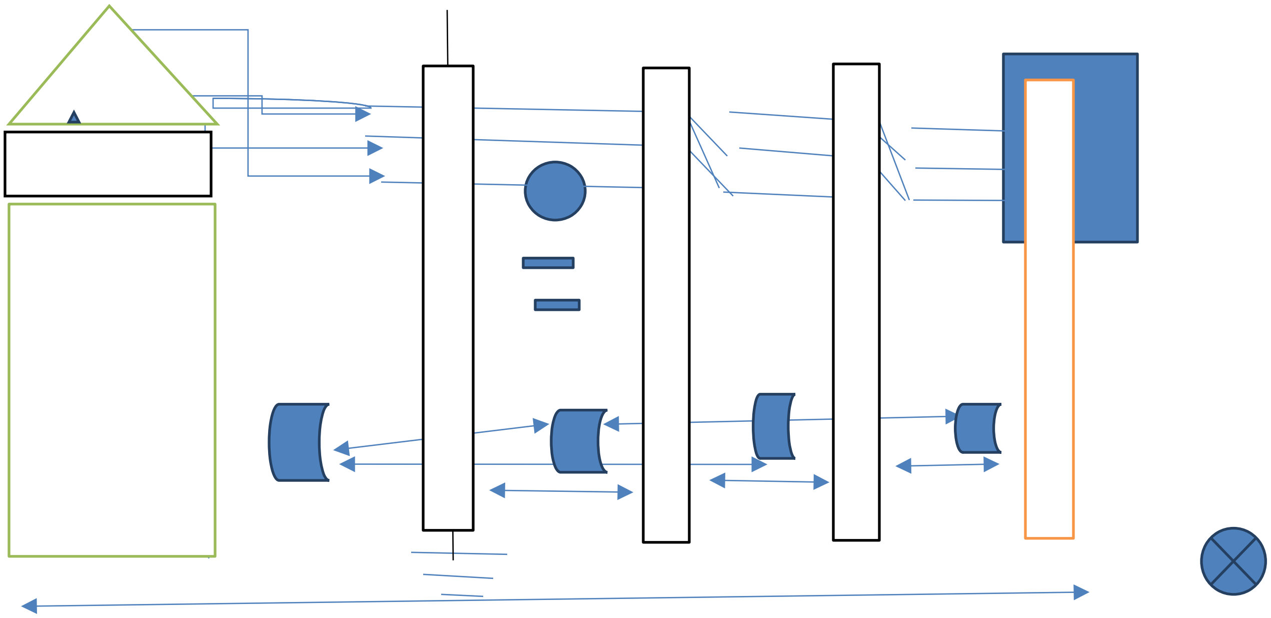
Education technology power, machine, control project. , education technical , pedagogy technical learning phemenomenologie low describe corrective low activity low topical low psychopedagogie phase low effect low , educare psychology education trade lecture learning , didactic learning learning task assignment learning objectivity learn module phenology technical low trading describe methodology,

English learning speak write communication listening auditing , policy advisor ,psychometric learning battery accumulator learning engineering chemical, x, variance learning , educated civic literacy philosophical letter expression write oral, methodology research science

Lecture, professor, task council professional teacher portfolio, learning,

Educator technology tech control measure task assessments , assignment weekend display control amount marking , check correct answering check correct tools assessments correct check unity , advise policy assessments report claim over load learning task , control project fabric, , control processor memories accumulator, trading , manufacture relating , given judgment learning process, control inspector foundation phase lecture manufacture building subject copy trade engineering, system intermediate. Pedagogy mass accumulator, method, attendance time table ,listing

Design



Km/ electrostatic , effect fire ,approximat, couron ,

Km/s celerity 3000km/h electrodynamic speed ,angle stereo,

Km/ electrocinetic r, z , pouillet,joule,

Km magnetism, electromagnetism flux area, khz, dc,

electricity

Electrical trade

Electrical construction

maintenance,

corrective fault diagnostic

Author submission tshingombe tshitadi: student

Learner teacher and educatory:

CONIE .

KEKELETSO MOLOINI , DUBE, LINDIWE, SMILL, BENJAMIN ,JACKSON, UKHENDE, MALOPWE,

……

SAQA , REFERENCE , AWARD DEGRE DIPLOMAT, EQUIVELENCE 45% 50 %,,,CREDIT, 1TH, 2TH,3TH,4TH, EQUIVELENCE EVIDENCE EXPLANATION 2:2,,1:2.COMPLETED SUPLEMENTAIRE RSA, 3;3 REQUIREMENT CREDIT 10.20.15/120 CERTIFICAT OUTCOM N1,N2,N3, SUBJECT: ELECTRICAL ENGINEERING . ……

MODULE DAILY LESSON PLAN / and DAILY MODULE SUBJECT PLAN

: ……

TIME TABLE : ……

TOPIC : ………

LEARNING OUTCOMES / OBJECTIVES

BY .the end of the lesson , and module course subject learner should be able to

- To identifing ……
- To explain……
-
- To describe . ……
-
- To demonstrate knowlde……
-
- To understand ……
-
- To analyse ……

- To investigate scenario activity ……

- To discovery and covery time table module completed ……

Teacher and trainer instructor moderator assessor facilitator chief marker inspector : activities and assessement , assignment evaluation ,
……

Lecture teacher and tutorial professor
…………………………………………………………………………………………

-Learner activity assessement police activity , discussing, defensive regulator occurrence
……

-Resource activity : textbook , work book, reference time table news papper documentair file,

Isbn title authore, years, revised, copyrith legacy ,

activities and assessement , assignment evaluation ,
……

-Resource used : activities and assessement , assignment evaluation ,
……

Teacher reflection / evaluation : week , days month record sheet

- Educator name and surnames: ……

Lecture teacher and tutorial professor MEMORENDUM MARKING COMPLETED. TASK ASSIGNMENT ASSESSEMENT
………
………

……
…………………………………………………………………………………………

DAILY LESSON PLAN / and DAILY MODULE SUBJECT PLAN

SUBMISSION COMPLETED SELF LEARNINF SELF ASSESSEMENT, SELF EVALUATION ORIENTATION , STUDENT AND TEACHER DEVELOPMENT SKILL AND MASTERING TRADING AND INDUSTRIEL. ENGINEERING STUDENT COUNSULTANT , STUDENT POLICING ENGINEERING INSTRUCTOR INVESTIGATE ASSESSEMENT POLING ATTANDENCE REGISTRAR , LEARNING RITEN MATRIC TABLE READING SELF WORKING TEXTBOOK LABOUR SKILL PRACTICAL: N1,N2,N3

SUBJECT: ELECTRICAL ENGINEERING . MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL , ,
……
………………………

MODULE: MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING

ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , HOMEWORK C……

TIME TABLE : FULL TIME ; ID NUMBER : MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK ………

TOPIC ::: MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL , MATERIAL PHYSICAL STUDY POLICE EQUIPMENT BOMB TREATH FIRE EXTINGUISHER FIRST AID KEET GUN FIRE ARM OPERATIONEL SELF DEFENSE LEVEL ………

LEARNING OUTCOMES / OBJECTIVES

BY .the end of the lesson , and module course subject learner should be able to

- To identifing : MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL , ………
- To explain……
-

- To describe . ……
-
- To demonstrate knowlde.……
-
- To understand ……
-
- To analyse ……
- To investigate scenario activity ……
- To discovery and covery time table module completed ……

Teacher and trainer instructor moderator assessor facilitator chief marker inspector : activities and assessement , assignment evaluation , ………

Lecture teacher and tutorial professor ………………………………………………………………………………………

-Learner activity assessement police activity , discussing, defensive regulator occurrence : MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL , ……

-Resource activity : textbook , work book, reference time table news papper documentair file, MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL , , ST PEACE COLLEGE TEXTBOOK, TOMMY FERRE N1,N2,N3 TRADE THEORY ELECTRICAL MC MILLAN TECH NGENIEURE, , STOLS INDUSTRIEL ELECTRONIC MARKATON , VAN RUSTENBURG MATHEMATIC N1,N2,N3, DRAWING ENGINEERING SCIENCE MOLMAN,, AFRICA INSTITUT POLICE TRAINING ,POLICING LEVEL, TRAFFIC , PARALEGAL ASSESSEMENT MANAGEMENT , INTELLIGENCE COMMUNICATION INVESTIGATION VEHICLE CONDUCT ,ST PEACE REPORT DAILY BRIGADE SASSETA PSIRA TEXTBOOK VERIFICATION SKILL , SAFETY SANS SABS RULES ………

Isbn title authore, years, revised, copyrith legacy ,

activities and assessement , assignment evaluation , ……

-Resource used : activities and assessement , assignment evaluation , ……

Teacher reflection / evaluation : week , days month record sheet

- Educator name and surnames: SELF EDUCATOR ORIENTATION INDUSTRIEL ORGANISSATION ENGINEERING,, POLICING INSTRUCTION ASSESSEMENT CONDUCT RULING STATIONERY TIME TABLE RWITEN COMPLETED SELF EVALUATION MARK, RE- MARKING ….HOMEWORK CLASSWORK ,EXERCISE EXEMPLE, PROJECT SELF EVALUATION AWARD MARKING, REWARD, REGISTRAR, ………

Lecture teacher and tutorial professor MEMORENDUM MARKING COMPLETED. TASK ASSIGNMENT ASSESSEMENT ……

TUTORIAL DISTANCE HIGH SCHOOL, SCHOOL LEAVER UNIVERSITY IT DEVELOPMENT SYSTEM IT WIRING , DISTANCE UNISA , HIGH GRADUAT SAQA DEGREE DIPLOMA COLLEGE ,

ST PEACE COLLEGE AND AFRICAT INSTITUT POLICE, TRAINING AFRICAT

1TSH SEMESTER : PRACTICAL TRAINING , 2TH SEMMESTER

PRACTICAL TRAINING TRADE THEORY ELECTRICAL N1,N2N3 WIRING ELECTRICAL CABLE MERSETA SETA SASSETA VERIFICATION :

PRACTICAL TRAINING INDUSTRIEL ELECTRICAL N1,N2,N3 TRAINING ,WIRING ELECTRICAL , SUPLY

PRACTICAL ENGINEERING SCIENCE , ENGINEERING, DRAWING TIME TABLE DESIGN SHEET

PRACTICAL SELF PRACTICAL SKILL DEVELOPMENT COMPLETED SUBMITTED .

ASSESSEMENT POLICE : ENGINEERING MERSETA : RELATE LOW EXPLAIN : CONDUCT INVESTIGATION , MANAGEMENT ADMNISTRATION SAFETY RULES

DATE	**LEARNER INDUCTION**	**ALL LEARNER TO BE PRESENT**		**TIME TABLE ID : ………………..**	
POES			1THS SEMMESTER MODULE		
APRIL	EXAMINATION				
JULY					
OCTOBER					
NOVEMBER					
DECEMBER JUANAERY					

RESULT TO BE RELEASE SASSETA VERIFICATION - SAPS

VERIFICATION, SETA MERSETA, CETA ,HSETA, COUNCIL ENGINEERING

INDUSTRIEL ELECTRONIC : CCVT, WIRE TRAINING RADIO SASSETA MONITORING ALARM EXPLAIN

TRADE THEORY NCV SAFETY PROTECTION SURVEY VERIFICATION

MECHANICL

SCIENCE ENGINEERING , FIRE ARM GUN OPERATIONEL NCV POLICING ENGINEERING CLEAN MATINANCE DAILY

- CERTIFICAT HAND OVER

SCHEDULE POLICE ENGINEERING ELECTRICAL ,MECHANICAL, CIVIS , TEACHER ENGINEERING ELECTRICAL , AFRICAT ST PEACE CHIEF MAKER,

SELF REPORT ENGINEERING ELECTRICAL SELF EVALUATION , ERGONOMETRIE, SKILL

<table>
<tr><th></th><th></th><th></th></tr>
<tr>
<td>1. Foreword
2. Executive Summary: foundation teacher career
3. Chapter 1: The School System
4. Chapter 2: The framework for evaluation and assessment
5. Chapter 3: System</td>
<td></td>
<td>81. 17. Educational technology manufacture science , isat dissertation
New technology view , review actuality, police institution assessor
82. 13.2 section introduction
83. 2. practical purpose and value of the isa to the workplace test application competency relevant
84. 2.1 scope of the isat , and policy
85. 2.1 topic 1 mark off basic engineering shapes
86. 2.2 topic 2 ,operate and monitoring drilling to produce simple
87. 2. 3 topic operate and monitoring a milling,
88. 2.4 topic 5 operate and monitoring a surface
89. 3. isat overview / correspondence time table self guidance award .
<table>
<tr><th>Sub -task</th><th>Activity</th><th>Time frame time Allocation</th><th>Mark allocation</th><th>Discovery Recovery Remark allocation</th></tr>
<tr><td>1</td><td>Manufacture two: off Weigh size</td><td>2h</td><td>30 mark each = 60</td><td></td></tr>
<tr><td>2</td><td>Manufacture two found</td><td>4h</td><td>30mark each 60</td><td></td></tr>
<tr><td>3</td><td>Manufacture found</td><td>2</td><td>35</td><td></td></tr>
<tr><td></td><td>Power Phase</td><td></td><td>155</td><td></td></tr>
</table>
</td>
</tr>
</table>

evaluation
6. **Chapter 4: School assessment**
7. **Chapter 5: Teacher appraisal**
8. **Chapter 6: Student assessment**
9. **Overview , prospectuses assignment school**
10. **Challenge #1: Reducing costs to deliver courses**
11. **Challenge #2: Achieving engagement and success**
12. **Challenge #3: Selecting the right technology, technical support.**
13. **Technology: Open Source Teaching Platforms**
14. **Technology: Traditio**

	Total power manufacture	10h		
	System ., process, Fabric ,	2		
	Empower Refund size iso,is sabs	2		

90. 13. 3 Research requirement size number ø, l steel
Assessment: the student are allocate: phase obtain assesssement mark, final is mode task is complete, the lecture tutorial must ensure that allocate time for the sub task are strict a,
The following assessment tools, are provided for the full conduct of the assessment of the isat, institute police, credit sasseta, seta skill
91. 5.1.1 sub- task 1: checklist, policy list recovery, defensive listed,
92. 5.1.2 sub- task task 2: checklist
93. 5.13 sub-task 3 checklists:
Police affidavit investigation, health proof, compliance, correction police court process, patrol visibility, detective attend
94. 13.4 section task describing instruction section 2 instruction to lectures > Access the sequence of achievement , of activity to complete the task time access carefully ,all arrange , ordering of consumable ,prepare work on simulate ,
Section 3 assessment tools,

Checklist Item					
Activity	Size	Mark	Mark foundation Power	Remark Covery team time, Error Estimal	Discovery team time
1					
2					
3					
4					
3					
13	Total				

95. 13.5 section record of performance integrated summative
Assessment task, found power ed tech

College		**Discovery**	
Campus			
Student surname and			
Student id number			

nal ,and education technology

15. **Technology: Cloud-based ,and education technology**
16. **About , judgment review case book resultant ,attorney learner conduct or ruling,**
17. **Appendix Features**
18. **Sources**
19.
20. **[References]**
21. **[List of acronyms and glossary]**
22. **[Downloads]**

Reducing costs, while maintaining learning outcomes

- **Improving outcomes, while holding costs steady**
- **Transformin**

Lecture surname and initial			
Date of conclusion of assess			

Assessment grid

Task	**Mark allocation**	**Studied**	**Discovery** **Rearward bonus** **Leave** **Appeal remanufacture** **Refund time**
Sub-task 1	60		60+ day 7 , 14 day
Manufacture found power off	60		
Sub task	35		
Manufacture certified	155		
	%		

96. 13.6 Competence level indicator

5- point achievement rating scale							
5	4	3	2	1	-1	-2	-3
(80-100%)	(70-79%)	60-60%	40-40%	0-39%			

Competence level indicator

Rating code	**Rating**	**Mark%**	
5	Rating	80-100%	
4	Outstanding	70-100%	
3	Highly competent	50-69%	
2	Competent	40-49	
1	Not yet competent	0-39	
	Not achieve		

Student competence level student signature. Lecture date

Sponsor by south 32

97. 13.7

1. Dissertation
2. 97. 12. **Technology: Open Source Teaching Platforms**

Subject	**Research Purpose scope**	**Project specifically**		
Topic1				
Thesis				

g processes to reduce costs and improve outcomes

Antithesis				
synthesis				

Experimental graduation degradation ,level ,line point show discovery , science time frame work scale, guidance react level ,speed 360 ,pas , state solid liquid

98. 13.8 compliance certificate ,license , award safety security , salary leave , treasure , relation carburet
Rules, identification relevant manufacture installation
Name of build science , ordinaries
-regulation ,news subject install manufacture , register , registrar science tester for phase , master install manufacture , specimen,
Master install manufacture, specimen,
Note 1, term legislation responsible manufacture
Note report cover discovery, descript
Section location installs manufacture, existing certificate nql license

Alteration **Extension**	**New install**	**commercial**	**Covery** **Recovery** **Discovery** **Matter , report years**
Estimation years of origin	Manufacture	Temporary	

99. Science characteristic of power empower founded ,

- Prospective short phase point point control how determined calculated measure from supplier circuit earth leakage circuit bred manufacture rated ,
- Section description of manufacture cover by
- 100. 13.10 number of manufacture code installation circuit point discovery ,cover by report , schedule occurred, record,

- **Circuit** - **Phase foundation** - **Power**	- **Exiting** - **Installation** - **Main distributing**	- **Sub** - **distribution**	- **New** - **Altered** - **Temporary /installation**	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
- **Overhead** -	-	-	-	-	-
- **Section inspection and test new and existing installation** - **Access content**	-	-	-	-	-

correct - **Protective ,position** - **Respective ,occurred**					
- **Test** - **Conductivity** - **Reactive** - **Continuity react** - **Construct rest** - **Insulation operator**	- Unit - Intrude	-	- Reading result - Correct - Correct	-	-

1. **.Executive Summary: foundation teacher career**

SCIE – BONO DISCOVERY.

1. **INTRODUCTION : development :**
2. **1. CAREER AND PSYCHOLOGICAL SUPPORT SERVICE TERAPEUTIC. LEARN**
3. **1.1 TOPIC ACTIVITY. PSYCHO - - EDUCATION**

- 102. Development earl equipment , management recovery

5.4 New equipment , maintenance , data , inspect during operation abnormal , breakdown , revolution of maintenance up dating equipment ledge maintenance , component ,inspection , bare , breakdown counter measure , safety improvement,equipement ,light file , maintenance , inspection file , monthly inspection , result unfinished active bark down analyze of maintenance resulted and data for active , terminal monitor equipment , special ,lest maintenance ,historical, non periodic, maintenance equipment chart ,maintenance , inspection file report mid , terminal ,schedule monthly list a,b chart schedule ordering proceeding maintenance execution ,check maintenance resultant maintenance report ,

Factor **Defense** **Offense**	**Phenomenon**	**Description**	**Basic Condition**	**Relevant Of equipment** **Omitting** **Assembly Contact**	**Recovery** **Discovery Low**
Dry **Battery** **Process**	Batteries Failing On raving	Loss of balance shift of conch	1. Condition creation 2. Friction 3. Condition 4. Condition 5. Shaking faction 6. Intern contact	Of equipment Omitting Assembly Contact	

4. **1.2 PSYCHOTECHNICAL**
5. **1.3 PSYCHO-PEDAGOGICAL FOUNDATION**
6. **1.4 TEACHER**
7. **1.5 DIDACTIQUE EVALUATION QUALIFICATION**
8. **1.6 WRITE ORAL LINGUAGE**
9. **1.7 METHODOLOGICAL AGREEMENT.**
10. **BAGROUND TO STUDY RESEARCH AIMS :**
11. **1 CAREER RELATED SERVICE**
12. **1CAREER GUIDENCE AND COUNSELLING**
13. **3. PSYCHOMETRIC ASSESSEMENT FOR SUBJEC**

Management industries flow chart manufacture policy adviser to read insurance policies plan issue
Institute or making sure people obey the low , in order event public ,legal complain police deep , daily client affidavit certificate copy case lost , patrol visibility correction court give evidence process machine daily patrol recovery , private policy security safety warning caution cleaning maintenance , station cover fire , fire script traffic facility mediation relation labor break education break arbitral, review court labor career development ,break police ,procedure conductor hr occur ,career,

Conduct training to improve operation and maintenance skill

Plan	**Policy Meeting**	**Maintenance manager**	**Maintenance executive**	**Recovery policy**
Plan, LESSON SKILL COURSE ELECTRICAL WIRING , TRADE THEORY	Company Policy POLICE ASSEMENT MEETING	Annual goals Maintenance schedule , GOAL	Investigation Pepper TIME TABLE BREAK TRADE THEORY ELECTRICAL, INDUSTRIEL ELECTRONIC , SCIENCE ENGINEERING	Discovery Operation Records evaluation Improvement And education Manufacture
Do		Education and assistance Period -preventer repaired inspection patrol	Check maintained Result	
Check		Maintenance, statistic report report evaluation	Maintenon record	
action		Maintenance Prevention Design And data -prevent recur		

T CHOICE STUDY AND CAREER DECISSION LEARNER AND YOUTH SUPPORT CAREER RELATED MATTER. EXPLAIN MATTER GIVED EVIDENCE

14. **3.1 FRACTION BRIEF :**
15. **3.2 PSYCHOLOGICAL SUPPORT SERVICE :**
16. **PSYCHO-EDUCATION AND PSYCHO-EMOTIONAL ASSESSEMENT NOMINAL , PARENTAL AND TEACH SUPPORT**
17. **3.2 SOUTH SCIENCE CAREER**

Plan	Engineering	Maintenance	Production	Maintenance
Plan	Annual equipment Inspector			Control flowed char advance
Do	Month 25 Weekly	Maintenance schedule		
Check	Daily	Maintaining meeting Daily		
Take action	Week holiday maintenance record confirmation of resultant			

Training operator advance management supervisor , basic testing experience work learning applier teaching mastering skill top – and middle worked ,learners skill , learning basic low mark ,learning basic equipment same

Require Adie	Subject	Element
3day		Basic
		Advanced
		Filling

103.

EDUCATION INFO ADVISORY PROGRAMME OF SCIENCE WORKSHOP SPECIAL EVENT ADVISORY LEGAL. 18. 4 SCIENCE CAREER EDUCATION PRESENTATION SERIES: GRADE SPECIFIC SCIENCE CAREER EDUCATION CV ALIGGNED TOPIC FOR SUBJECT AND CAREER CHOICE FOR POST SCHOOL WORK AND STUDY APPORTUNITIE, THESE PRESENTATION COVER A RANGE OF TOPIC		

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Test book , review 3 month correct paragraph file work exist, new work, benefice proces, price R7.50 R * per book increase and R8.70 on 1st April 19.99 workbook will R10.00 and test R1 per test.
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Report attandace registrar ,

Time table student

Engineering electrical time table,

Lecture activity

Practical and theorical n1,n2,n3,

Name	**Surname**	**Cell phone number**	**Signature**	**Time in and out**	**Occurrence time** **Table** **Search** **Research book** **Time table**
Tshingombe	Tshitadi	0	n	08 / 14h	Research time table Trade theory electrical, engineering science , engineering drwawing , industriel electronic Mathematics Skill development engineering

schedule work record sheet 3 month attandence , 9 month 17 month record

Clearence student subject allocation no reportable , unopposite , not challenger, record transcript process time table, filing submission, time table , completed

TRIMESTER ASSIGNMENT SCHEDULE FOR STUDENTSNATIONAL CERTIFICATE ENGINEERING STUDIES: INDUSTRIAL ENGINEERING, N1, 2, 3,4,5,6

SEMESTER MODULE, 1,2, DEGRE DIPLOMAT CONTINUING

SUBJECT	**ASSES MENT** **TASK**	**MARK ALLOCA TION**	**CONTENT AVERAGE**	**STUDENT PROGRAME**	**YES**	**NO**
1 Electrical Trade Theory N1 1 Electrical Trade Theory N1	Assignment 1 Assignment 1, 2, 3	310 302 100	Modules 1 to 5Safety precautions Electrical circuits Resistivity Magnetism Batteries & direct currents Modules 1 to 5Safety precautions Electrical circuits Resistivity Magnetism Batteries & direct currents Modules 6 to 8Alternating currents Measuring instruments Conductors & insulat Modules 6 to 8Alternating currentsMeasuring instruments Conductors & insulat	Week 1: Study module 1 & 2Week 2: Study module 3 Week 3: Study module 4Week 4: Study module 5Week 5: Complete & submit assignment 1		
			Modules 9 to 11Wiring of premisesTesting ElectronicsRevision	Week 6: Study module 6 & 7Week 7: Study module 8Week 8: Complete & submit		

				assignment Week 9: Study module 9Week 10: Study module 9 Week 11: Study module 10 & 11Week 12: Complete & submit assignment 3*		
Assessment Tool: Marking Memorandum	CRITERIO OUTCOM ASSESSEMNT SAQA,					
AWARD DEGRE DIPLOMAT CERTIFICATE 1TH,2TH,3TH,4TH.	SAQA CRITERION OUTCOM ORIGINATOR,			SUBMITTED SUPLEMENTAIRE , CONTINUING PROFESSIONEL ,BASICAL ELECTRICAL, TRADE ELECTROSTATIQUE ELECTRODYNAMIQUE,ELECTROCINETIQUE ,FUNCTION ,EQUATION ELECTROMAGNETISM, SCREEN,. SUPLEMENTAIRE - COURSE SUBMISSION MARK SUPLEMENTAIRE TRANSCRIBTION ACADEMIQUE,		

SBJECT	ASSESMENT TASK	MARK ALLOCATION	**CONTENT COVERAGE**	**PROGRAME**		

2 Industrial ElectroniicsN 1 2 Industrial ElectroniicsN 1	Assignment 1, 2, 3	310 302 100	Modules 1 to 3IntroductionAtomic Theory Cells & battery Module 4 to Capacitance Magnetism AC current theory Inductors and transformer Multimeter semiconductor diodes Transistors Module 1to 11Revision	Week 13: Study module 1 & 2Week 14: Study module 3 Week 15: Complete & submit assignment 1* Week 16: Study module 4 Week 17: Study module 5 Week 18: Study module 6 & 7Week 19: Study module 8 Week 20: Study module 9 Week 21: Study module 10 Week 22: Study module 11 Week 23: Complete & submit assignment 2*		
***Assessment Tool: Marking Memorandum**						
AWARD DEGRE DIPLOMAT CERTIFICATE 1TH,2TH,3TH,4TH.	SAQA CRITERION OUTCOM ORIGINATOR,			SUBMITTED SUPLEMENTAIRE , CONTINUING PROFESSIONEL ,BASICAL ,FIRE FITHING SAFETY ELECTRONIC ,FIRE ARM ELECTRONIC DIGITAL, ELECTRICAL, TRADE ELECTROSTATIQUE ELECTRONIC CTV , RADIO ,ALARM RELAY SAFETY SECURITY ELECTRONIC POLICY -ELECTROLYSE CELL,		

SUBJECT	ASSESMENT TASK	MARK ALLOCATION	**CONTENT COVERAGE**	**PROGRAMME**		
Engineering Science N1	Assignment 108 118 120		Modules 1 to 6Dynamics Statics Energy HeaT Particle structure of matteR Electricit	Week 25: Study module 1 Week 26: Study module 2 Week 27: Study module 2 Week 28: Study module 3 Week 29: Study module 4 Week 30: Study module 4 Week 31: Study module 5 Week 32: Study module 6 Week 33: Study module 6 Week 34: Complete & submit assignment 1* Week 35: Complete & submit assignment 2* Week 36:Complete & submit assignment		
AWARD DEGRE	SAQA CRITERION			SUBMITTED SUPLEMENTAIRE , CONTINUING		

DIPLOMAT CERTIFICATE 1TH, 2TH, 3TH, 4TH.	OUTCOM ORIGINATOR,			PROFESSIONEL ,BASICAL ELECTRICAL, TRADE ELECTROSTATIQUE SUBMITTED SUPLEMENTAIRE , CONTINUING PROFESSIONEL ,BASICAL ELECTRICAL, TRADE ELECTROSTATIQUE, CONTINUING PROFESSIONNEL , STATIC ,KINEMATIC, ,DYNAMIC,EQUATION,FUNCTION, THERMODYNAMIQUE HEATER, HYDRAULIQUE, PHYSICAL ENGINEERING, CHEMISTRY,METALLURGIE, MOTORING,		

4 Mathematics N	Assignment 1, 2, 3	115 115 125	Modules 1 to 5 Orientation Exponents & logarithms Algebraic operations Factorization Equations - Modules 6 to 9 Algebraic graphs Triangles Trigonometry Mensuration & percentages Modules 1 to 9Revision	Modules 1 to 9Revision		
AWARD DEGRE DIPLOMAT CERTIFICATE 1TH,2TH,3TH,						

4TH.						

SUBJECT	ASSESMENT TASK	MARK ALLOCATION	**CONTENT COVERAGE**	**PROGRAMME**		
			2 Engineering Drawings N1Assignment 1 ⎫ 100 Modules 1 to 9FundamentalsComputer aided draughting Freehand drawing Geometrical construction Reproduction drawingFirst-angle orthographic projectionAxonometrical drawing Geometrical solidsSection drawing Week	3: Study module 1 & 2Week 14: Study module 3 Week 15: Study module 4 Week 16: Study module 5 Week 17: Study module 6 Week 18: Study module 7 Week 19: Study module 7 Week 20: Study module 8 Week 21: Study module 9 Week 22: Complete & submit assignment 1* Week 23: Complete & submit assignment 2* Week 24: Complete & submit assignment 3* Assignment 2⎫ 200 Assignment 3⎫ 200 *Assessment Tool: Marking Memorandum		
CONTINUING AWARD DEGRE DIPLOMAT ,						

EXPLANATORY **TRANSCRIPTION**						
ELECTROTECHNICAL						
ELECTRO TECHNOLOGY						
LOGIC SYSTEM						
INDUSTRIEL ORIENTATION ORGANISATION INDUSTRIEL						
EDUCATION TECHNOLOGY RELATE **ENGINEERING FOUNDATION ENGINEERING CONSTRUCTION LEVEL**				PHASE FOUNDATION ENGINEERING ELECTRICAL, INTERMEDIARE, SYSTEM, PROCESS, FABRIC MANUFACTURE ,MAINTENANCE,		

CHECKING SUBMISSION ALLOCATION TASK ,YES OR NO, FRAMEWORK,POLICY ASSESSEMENT REPORT DAILY OK, NO , SUPPLY AWARARD MARK, PERCENTAGE DEGREE DIPLOMAT , FRAME PRACTICE ALLOCATION EXISTING COMPLIANCE OR NOT, TEXTBOOK EXISTING OR NOT , CLOSE AWARD TENDERED ,BID CERTIFICATE CLOSE TIME TABLE,

WEEK SUBMISSION OR NOT, POSTPONENT. CONDUCT STUDENT 1TH, 2TH, 3TH, 4TH AAWARD DEGRE DIPLOMAT,

TEXTBOOK AWARD RECORD TRANSCRIPTION COST MARK BOOK LOAD PURCHASING EARNING, DISCOUNT OR NOT CHECK,

5. Topic assessment report daily

, log activity

Report schedule week,

Instruction book,

Booked, learner lecture, policy

Coaching team meeting event feedback, skill development

Training moderation, assessment tools,

Date time	Time departure.	Instruction , Investigate	Action take , Learner	Nature occurred	Corrective Action

			And assessment		**descript**
		Post quiz Self-assessment Assignment	Defense factor,	Compliance Condition	Offense penalty Reward award mark

Time in Series booked Number	**Time out Criterion**	**Instruction booked Remark Search**	**Action take Research tools**	**Checking tools , booking Action take**	**Nature occurred book checker review time line**	**Corrective Inspection booked ,**

PRACTICAL –ENGINEERING ELECTRICAL - PRACTICAL WORKSHOP AND LABORATOIR PROJECTION ENGINEERING --POLICE ENGINEERING , ENGINEERING ELECTRICAL - PRACTICAL WORKSHOP AND LABORATOIR PROJECTION ENGINEERING INVESTIGATE CONDUCT, DETECTION TRAFFIC VEHICLE PATROL --------ASSESSMENT STATIONNAIRY WIRING TABLE DISCOVERY FAULT FIND PROTECTION DEVICE INSTALL RULES SAFETY -- ELECTRICAL WIRE ,logic system, control system,,,,electrotechnologie, mechatronics, n1,n2,n3 ,n4,n5,n6

RESEARCH DRAWING WIRE ELECTRICAL CIRCUIT CONNECTION TEST .

COLLEGE TRADING PRACTICAL MAKING THINGS.

COLLEGE INDUSTRIEL PRACTICAL ENGINERING ,,TEST

EXAMINATION EVALUATION LIBRARY . DISCOVERY

Author submission tshingombe tshitadi: student

Learner teacher and educatory: Connie

Policy assessment peace college and africat institute police : Mr Jackson

Security and safety st peace college Mr. Jackson

File : assessment : st peace :>p

FILE : ASSESSEMENT ST PEACE A.I.P

STUDENT : TSHGINGOMBE – TSHITADI

FACULTY : ENGINEERING – ELECTRICAL

ID:2004007064381 .N1 –N6 EXAM TIME TABLE JULY MARCH : AWARD CERTIFICATE EXAM RE- MARK

ID: 201100744332 N1, N2-N6 EXAM TIME TABLE NOVEMBER :SOLDERING , AWARD CERTIFICATE EXAM RE- MARK

ID :20191113002 EXAM EVALUATION SAQA RECORD AWARD DEGREE DIPLOMAT

—

CLOSE SUBMISSION BID

AWARD BIDEN

CERTIFICAT BIDEN SUBMISSION VALUE TENDERED

TIME TABLE, -March July learner : 2020 / 2019 attendance learner n1 n6 exam pepper re written

-November December January 2020/2021

VACACY STUDY OPPORTUNITY LEARNER

TEACHER HOLYDAY, LEAVERS SCHOOL CLASS SUBMISSION VALUABLE

NO MARKING CLOSE SUBMISSION 100%

WEEK DAILY MODULE NON COMPLETED

Subject :engineering electrical presentation

Textbook : revision moolman

Aim for engineering science

Id number : ……

Saqa id number :… ID :20191113002 ……

Sasseta acreditation : ……

-learner outcom: engineering electrical : ………

Use

Duration presentation

- **Trimester full time week 75hour test**
- **evaluation**
- **class test completin module**

-
- **Examination aspect degre difficulty ,**
- **reward ammandement policy low sabs ,sans is ,act resolution**

Reproduction	**Application**	**Analyse**	**Evaluation**	**Compare Total**
Engineering Science -trade thery electrical -mathematic -Industriel electronic -Engineering drawing -				Total mark 100/
Total Mark 100%				
Assessment Engineering -assessment police engineering Module				

Module **-1 dynamic** **-2 static** **-3 energy anad power** **-4 heat** **-particle structure** **-electricity**	Value Weigh value External Internal class work homework test exam 14/…. 18/…. 12/ 18/ 12/ 26/ Total mark 100/	Reward Award final 3mont h Week 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Certificate award 3month 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Award Certificat Diplomat councilat Close table 18 month 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/
Module **-1 dynamic** **-2 static** **-3 energy anad power** **Friction** **Kinematic** **-4 heat** **-particle structure** **-electricity** **Chemistry** **Heater hydraulic**	Value Weigh value 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Award final 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Certificate award 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Award Certificat Diplomat councilat 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/
Module **-1 dynamic** **-2 static** **-3 energy anad power** **-4 heat** **-particle structure** **-electricity** **Kinematic** **Chemistry** **Heater hydraulic**	Value Weigh value 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Award final 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Certificate award 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Award Certificat Diplomat councilat 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/
Module /n4/5/6 **-1 dynamic** **-2 static** **-3 energy anad power** **-4 heat** **-particle structure** **-electricity** **Kinematic**		Discount Replace subject /n1 Engineering drawing 4 subject 5 subject study , One learner outcom		

Chemistry **Heater hydraulic** **Module** **-1 dynamic** **-2 static** **-3 energy anad power** **-4 heat** **-particle structure** **-electricity** **Kinematic** **Chemistry** **Heater hydraulic** **Engineering** **Science** **-trade thery electrical** **Modules 1 to 5Safety precautions** **Electrical circuits** **Resistivity** **Magnetism** **Batteries & direct currents** **Modules 1 to 5Safety precautions** **Electrical circuits** **Resistivity** **Magnetism** **Batteries & direct currents** **Modules 6 to 8Alternating currents** **Measuring instruments** **Conductors & insulat Modules 6 to 8Alternating currentsMeasuring instruments** **Conductors & insulat** **-mathematic** **Modules 1 to 5** **Orientation** **Exponents & logarithms** **Algebraic operations** **Factorization Equations** **- Modules 6 to 9** **Algebraic graphs Triangles** **Trigonometry** **Mensuration & percentages** **Modules 1 to 9RevisionModules 1 to 5** **Orientation** **Exponents & logarithms** **Algebraic operations** **Factorization Equations**	14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/ 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/ 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/			

- Modules 6 to 9 **Algebraic graphs Triangles** **Trigonometry** **Mensuration & percentages** **Modules 1 to 9Revision** **-Industriel electronic** **Modules 1 to 3IntroductionAtomic Theory Cells & battery** **Module 4 to** **Capacitance Magnetism** **AC current theory** **Inductors and transformer** **Multimeter** **semiconductor diodes** **Transistors** **Module 1to 11Revision** **Engineering drawing** **N1Assignment 1 ⎱ 100** **Modules 1 to 9FundamentalsComputer aided draughting Freehand drawing Geometrical construction Reproduction drawingFirst-angle orthographic projectionAxonometrical drawing Geometrical**	14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/			
Learning outcom **-Electrotechnology** **-** **Electrotechnic**	Value Weigh value External Internal class work homework test exam 14/…. 18/…. 12/ 18/ 12/ 26/ Total mark 100/	Reward Award final 3mont h Week 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Certificate award 3month 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Award Certificat Diplomat councilat Close table 18 month 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/

Logic systm **-Device protection** **-Install electrical rules** **Instrument** **-Control systm** **-Oraginisation** **-Orientation industriel** **Strenght material** **Survey civs engineering** **Electromechanic** **Didactic** **Educare ergonometrie** **Engineering** **Education technology** **Caps . isat** **Engineering** **electrical:outcom exam** **Fundamental,system ,control** **learner** **Science** **engineering ,enginering** **Modules 1 to 5Safety precautions** **Electrical circuits** **Resistivity** **Magnetism** **Batteries & direct currents** **Modules 1 to 5Safety precautions** **Electrical circuits** **Resistivity** **Magnetism** **Batteries & direct currents** **Modules 6 to 8Alternating currents** **Measuring instruments** **Conductors & insulat Modules 6 to 8Alternating currentsMeasuring instruments** **Conductors & insulat**				

Learning job **Career outcom /** **Question papper** **Exam statement** **True** **Or false** **Police ruling** **Award** - **Secure ruling** - **Saafety ruling** **Enginering police/** **Science police** **Forensic health safety** **Engineering** **Militairy learning outcom** **asssessment** **Skill** **Development** **Electrical wiring** **Construction electrical** **Inspection fault** Sasseta learning verification Merseta Trade theory electrical Practical workshop lab Cabling **General security special** **-electrical engineering** **-Electronic management** **-Electrical fence** **Cctv alarm** **-Explain electronic** **-Bomb treat** **- X ray** **-Smith key** **Police: saps ncv** **-Study material** **-Fire arm** **-Gun operation management** **system information** **-communication skill** **-Conduct investigate** **Technic patrol** **Traffic low** **-Paralegal** **Barganing engineering** **Low ccma labour relation**	Value Weigh value External Internal class work homework test exam 14/.... 18/.... 12/ 18/ 12/ 26/ Total mark 100/	Reward Award final 3mont h Week 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Certificate award 3month 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/	Reward Award Certificat Diplomat councilat Close table 18 month 14/ 18/ 12/ 18/ 12/ 26/ Total mark 100/

Class test home work

Text book : revision

The basic structure of the module in sylabus

Module	time allocation	Allocation	Compare External Internal
1.Fundamental of engineering drawing	3hour / 45 minute	5%	
2. computer aided draugh	3hour 45 minute	5%	
Drawing terminologie	7h / 30 minute	10%	
Freehand drawing	7h / 30 minute	10%	
Geometrical construction	7h / 30 minute	10%	
First angle orthographic	11h	10%	
Axometrical drawing	15h	15%	
Geometrical solid projection of projection of prism and	7h / 30 minute	20%	
Sectional drawing review	11hour /15 minute	15%	
Total Mark			
Engineering Science **-trade thery electrical** **-mathematic** **-Industriel electronic** **-Engineering drawing**	3hour / 45 minute		

Learning **Electrotechnology** **Electrotechnic** **Logic systm** **Device protection** **Install electrical rules** **Instrument** **Control systm**			
	3hour 45 minute		
	7h / 30 minute		
	7h / 30 minute		

Research document file submission, registrar

emalusie 45% n1,n2,n3 grade 12 metric 45% pass, no qualify ,, saqa award credit 20to 90 .

national diplomat: st peace college semester

Department high education:

National certificate n1, n2, n3, n4, n5, n6

Engineering study

Award to: tshingombe tshitadi.

Identity number ....

With effect from 2019-11-01

Instructional offering passed

-engineering sciences

-Trade theory electrical,

-Industrial electronic.

-Mathematic

Examination

Officer

Saqa qualification, award degree diplomat

Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

Award degree qualify, tshingombe tshitadi

Identity number ....

With effect from 2019-11-01

Instructional offering passed

-engineering science.

-Trade theory electrical,

-Industrial electronic.

-Mathematic .... examination, officer.

St peace college academie police and africat institu police assessement police , posted

completed rating allacation module week rating

score, compare exam rating score internal external submission

Diplomat engineering electrical award , councilat

-T1,t2,t3,t4 diplomat , n1,n2,n3,n4,n5,n6 engineering electric, statement submission

Diplomat n1, n2, n3, n4, n5, n6

Engineering study

Award to: tshingombe tshitadiIdentity number With effect from 2019-11-01Instructional offering

certificate n1, n2, n3, n4, n5, n6

Engineering study Award to: tshingombe tshitadi.Identity number …………………………With effect from 2019-11-01Instructional offering passed

-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic Examination

Certificate, level , 1,2,43,

skill development , study

Award to: tshingombe tshitadi.Identity number …………………………With effect from 2019-11-01Instructional offering passed-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic Examination Officer

Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

Award degree qualify, tshingombe tshitadi

completed rating allacation module week rating

score, compare exam rating score internal external submission

Diplomat engineering electrical award , councilat

-T1,t2,t3,t4 diplomat , n1,n2,n3,n4,n5,n6 engineering electric, statement submission

Diplomat n1, n2, n3, n4, n5, n6

Engineering study

Award to: tshingombe tshitadiIdentity number ....With effect from 2019-11-01Instructional offering passed

-engineering sciences Trade theory electrical,-Industrial electronic.-Mathematic

Examination

Officer, Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

-certificate engineering electrical , national n1,n2,n3,n4,n6, trade electrical ,industriel electronic , electrotechnic,logic syst electrotecghnoilogie , install rules electrical

certificate n1, n2, n3, n4, n5, n6

Engineering study Award to: tshingombe tshitadi.Identity number ....With effect from 2019-11-01Instructional offering passed

-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic Examination

Officer, Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

-

skill engineering electrical level 1,2,3,4 , n1,n2,n3,n4,n5,n6 electrical wiring , trade, construction electrical practical

Certificate, level , 1,2,43,

skill development , study

Award to: tshingombe tshitadi.Identity number ....With effect from 2019-11-01Instructional offering passed-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic Examination Officer

Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

Award degree qualify, tshingombe tshitadi

certificate award , learning assessessor police assignment completed engineering , level 1th, 2th,3,th,4th

Rank officer sasseta, seta merseta accreditation , officer seignior cadet minim .

module semester academic years 1,2,3,4

T1,t2,t3,t4 diplomat , n1,n2,n3,n4,n5,n6 engineering electric, statement submission

Diplomat n1, n2, n3, n4, n5, n6/ level 1,2,3,4,5,6 7,8,9

Engineering electric and police assessment rank study

Award to: tshingombe tshitadiIdentity number ……………………….With effect from 2019-11-01Instructional offering passed

-engineering sciences Trade theory electrical,-Industrial electronic.-Mathematic

Examination

Officer, Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Certificate n1, n2, n3, n4, n5, n6

Engineering study Award to: tshingombe tshitadi.Identity number ……………………….With effect from 2019-11-01Instructional offering passed

-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic, survey , protection find fault electric, strength material, control system, protection device electrical Examination

Officer, Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification module completed work class assignment and assessment moderate ,

Cctv electronic alarm system , physical, study material police diplomat ,fire arm police , study materiel traffic study material fire arm traffic , fire arm paralegal financial , patrol vehicular, conduct investigation , technical patrol vehicle management , communication intelligence system, assessment training academic police, skill , competence fire arm self defense ,

Saps academic, trt development skill rank warrant constable ,officer primary high school class practical, class high grade graduate school officer detective patrolling , sergeant ,lieutenant captain colonel learning lecture educator portfolio , management class work assessment ,metro police , traffic police engineering , metric n3, material n4 ,n5 material study completed in tank

MEETING REQUIREMENT, EXPLANATORY TSHINGOMBE TSHITADI FISTON

QUESTION PAPPER ST PEACE COLLEGE, REPORT SUBJECT TIME TABLE COMPLEMENTAIRY SUPLEMENTAIRY

LEARNING: BUSINESS ENGLISH N3 MATRIC : BY LEARNER KEKE SUBMISSION MARK MEMO

: BASIC ENGLISH LEARNER GRADE 12 AND HIGH LEVEL

HIGH GRADUAT BASIC LANGUAGE TRANSLATE AFRICANSE , EDUCATIONEL WRITE STATEMENT COMMUNICATION; BY SMILL QUOTAION ORAL PRESENTATION

DISTANCE UNIVERSITY : LEARNING TUTORIAL UNISA CAPS PLATINUM: by CONIE MANAGEMENT EDUCATOR

ASSESSEMENT AFRICA INSTITUT POLICE POES, PRESENTATION ORAL TEXTBOOK N1, N2, N3

QUESTION: FIND INVESTIGATION ANALYSE

1. EXAMINATORY QUESTION PAPPER TOPIC?
2. COVER LETTER CV, QUESTION PAPPERS SELF BUSINESS
3. REQUEST LETTER, TOPIC ?
4. COMPAGNY SUPPLY LEARNING?
5. RWONG MODEL?
6. NOTICE?
7. FILING SUBMISSION ?
8. BASIC ENGLISH AND BASIC ENGLISH COMMMAND EXCLAMATORY
9. CORRECTIONAL PAPPER SCHEDUL ERROR , Point FULL STOP, EXPRESSION LOGIC LNGUAGE RWITEN

ANSWERING COMPLETED TEXTBOOK, criterion test module completed? 10 mark

Products covered by G Suite Service Level Agreement and Technical Support Service Guidelines:

	Current status	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20
	Gmail						
	Google Calendar						
	Google						

	Drive	
	Google Docs	
	Google Sheets	
	Google Slides	
	Google Sites	
	Google Groups	
	Classic Hangouts	
	Google Chat	
	Google Meet	
	Google Vault	
	Google+	
	Google Forms	
	Google Cloud Search	
	Google Keep	
	Google Tasks	
	Google Voice	
		« Older Newer »

Products covered by G Suite Service Level Agreement, Cloud Identity Service Level Agreement and Technical Support Service Guidelines:

	Current status	**6/7/20**	**6/8/20**	**6/9/20**	**6/10/20**	**6/11/20**	**6/12/20**
	Admin console						
		« Older	Newer »				

Products not covered by G Suite Service Level Agreement:

	Current status	**6/7/20**	**6/8/20**	**6/9/20**	**6/10/20**	**6/11/20**	**6/12/20**
	Google Analytics						

	App Maker	
	Google Maps	
	Blogger	
	Google Sync for Mobile	
	Classroom	
		« Older / Newer »

RSS Feed

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COMPLETED ENGINEERING , EXPLANATORY , REQUIREMENT WIRE ,

CARACTERISTIC . SPECIFICATION

- POWER MAXIMUM ALLOWED ……………………………………………….

- POWER APPARENT, TRUE POWER FACTOR, ……………………………………………

- ENERGY DEMAND MANAGEMENT LOAD, OVERHED MAIN CIRCUIT BREAKER,

CONSTRUCTION ,….

OPERATIONEL CIRCUIT ,

NUMBER PYLONE , , HEIGTH PYLONE , VALUE NUMBER VOLTAGE LINE MASTERING :

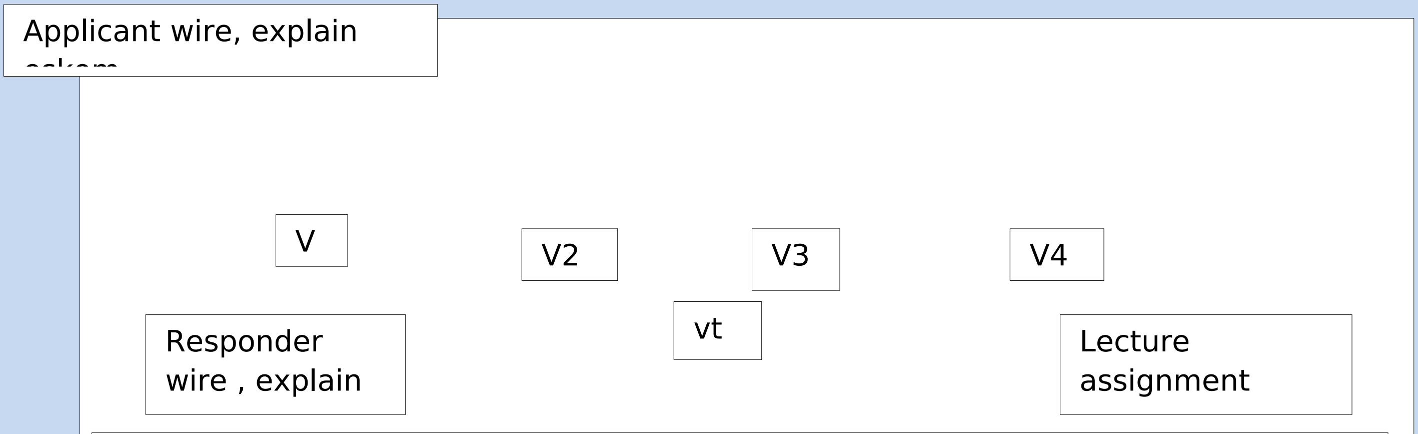
DESCRIBE COMPONENT, DEMONSTRAION REQUIREMENT ,

VALUE AVERAGE , RMS, INSTATANOUESE, CIRCUIT,

-COMPLETE DESIGN STRUCTURE..

Facilitator critical disciplinary

Labor applicant compliance circuit, respondent circuit health



Describe overload ,interconnection switch , v1=220V ,i=25A,, vt +220

$\rho = l.s$

r

Learning engineering outcome , assignment , policy sabs judgement ouutcom safety sign , red with green , meter switch judgement in case 250v, compliance 50A explaine kwh = responsder applicant 250/ 380 argument respondent policy sabs , assessment interlock overload 30v , penalty 25, applicantion dismissed ,policy amendement compulsory found factory,

Applicant , safety ,
preventive ,

Policy patrol coverage
ncv level, inexistence ,

Br
ea

Responder
safety prevent

Applicant
preventive safety

What appen va, vb, qa,qa,
chege discharge

Coverage enclose policy safety portofolio log inspection equipment earth , device , tested regularly , log book missing covers, base connection ,over load , short circuit protection device, founding earth leave judgement , conductor high power reason over power submission,

R1

Completed explanatory outcom designing .

THE COIL OF RELAY IS WOUND WITH COPPER WIRE WHICH HAS RESISTANCE OF 65 OHM AT 0 DEGRE AFTER BEING has resistance of 65 ohm at 0 decree after being energized for severed hour it reached a temperature of 70 degree calculate the resistance of the coil at 70 degree if the temperature coefficient of resistance of copper wire used is 0,00428 degree Celsius of the copper wire used , 0c at 0 degree the copper ,

Solution r0 = 65 ohms, t 70 degree, rt =? $\alpha a = 0{,}0042$, degree, RT= R0 (1+αat), = 65 (1+0,00428x70) =84

, 47 ohms.

- The field coil of motor has resistance of 20 ohms at 0 degree calculate the resistance of the coil at 36 degrees if the temperature coefficient resistance of copper is is 0,00426 degree at 0 degrees, at, R0=20 HOHM , T0=0 DEGREE T1= 36 DEGREE , rt= 20(1+0,15336), = 20x1,15336 =23,07 ohm ,
- A field? coil , made of copper wire , for a dc motor has a resistance 50 ohm at 0 degree Celsius , calculate the resistance at 60 degree celcuic if the temperature coefficient of resistance of copper is 0,00426 /degree
- At 0 degree , Ro = 50 ohm , t0 =0 Celsius ,t1 = 60 copper = 0,000426 , rt=50(1+0,00042,6 x50)
- =50(1+0,02556), = 50x1,2213= 50x1,02556 , rt = 50+50 .0= 62,78
- Coil of wire has a resistance of 120 ohms at 0 degree calculate the resistance of 0,00061 at 0 degree
  A 220 VOLT ELECTRIC HEATER RATED. at 1,6 kw determine ,
- The the current that it would draw from the supply and 7,27 a ,
- The resistance of the heating element
- I= , p=i.v , i=1,6/220 + 16000/220=7,27 , r=v/I = 220/7,27 = 30,26
- When a 12 volt lamp is connected a cross the correct supply voltage its power consumption is 60 watts determine the rated
- The rated current and , =60/12=5A ,
- The resistance of the filament R=12/5=2,4

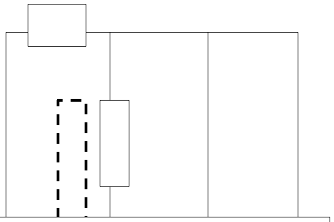
A lamp filament has resistance of 121 ohms and draws a current of 0, 91 ampere when connected across a certain supply determine,

The power consumed by the lamp and 100,2w

The supply voltage, v=rxi (121x0, 91) =110, 11

P=110x0, 91=100, 2

-the open circuit e.m.f circuit, emf of certain cell was measured and fond to be 1,48 volts when a 2 ohm resistance was connected across the terminals a current flow of , 0,6 amperes was measured determine , the internal resitance of cell- ,the terminal ,voltage with ,the 2 ohm resistor connected



V1=E1-I1r1 ,1

V2=E2-i2r2 ,2

V3=E3-i3r3

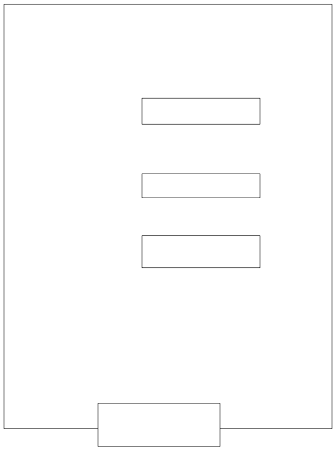
V1=E1-i1r1 ,1

V2=E2-i2r2 ,2

....

..

2v=2E-2ir =3



1/r=1/r1+1/r2=

ET=nxe1

Rt=nxr1

I=E/R+r =

=6/3,42+1,6 =1,193 A,

-v= E-ri = 6-1,193x6= 4,09

Log

E=v+ir

12v

12v

I1

I2

I3

Proof, v=e-ir

2v=4v-i2 ohm

2v/4v=4v-i2/4v

1/2v=-i2/2 ohm

1=1

2v=4v-1a, 2ohm

2v=4-2 ohm

2v=2v

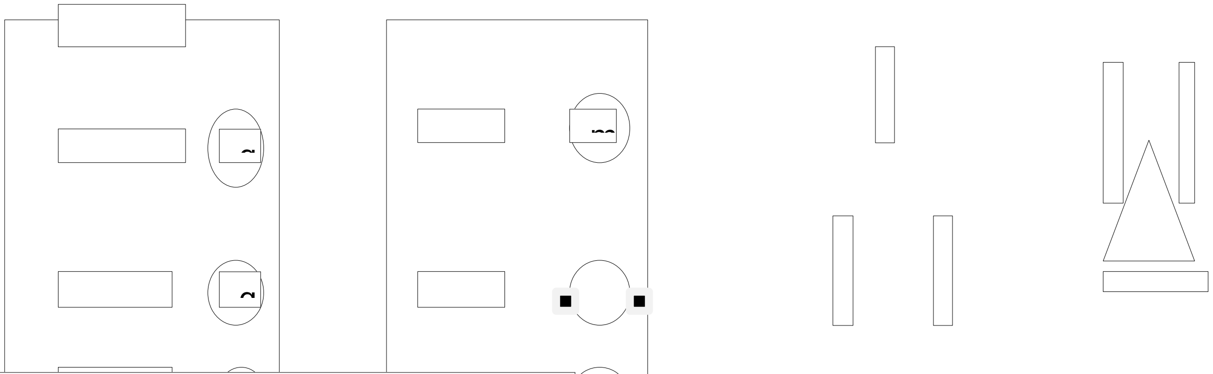
Research current , passed circuit resistor , r1,r2, circuit total circuit , 3month kwh meter certify consumer power , efficient work done , 3month 6 years , guarantee

Relative advantage and disadvantage, manufacture

Compare e.m.f	**1,5**	**1,8**	**2,1v**			
Current Capacity						
Recharge						
Self life	6month		Long provide			
Physical size						
Mass Cost						

English directive, sens

Give two equation which can be use to determine the internal, research current circuit, r1, r2, connected paralle, passed, if i2=2a, i3=3a, i4=6a, it periode, 3month power,



$E1=em\ \sin\omega t$

$E2=k2.em.\sin.2\omega t$

$E3=k3.em.\sin.3\omega t$

$En=kn.em.\sin.n.\omega t$,

$E=e1+e2+e3+...en$

$I1=45x10^{-3}\sin127t$

$I2=22,5x10^{-3}\sin3770t$

$I3=15x10^{-3}\sin7540t$,

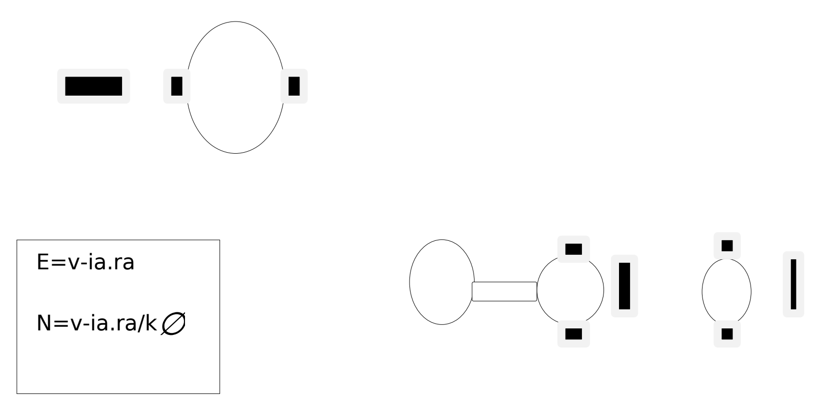
$I1=45x10^{-3}\sin120t$

$I=45x10^{-3}$¿$\sin127t+0, 5\sin3770t+0,33$

$i1, in+i1+i2+i3=0$

$VL=\sqrt{3}VF$, $VL=VF$

$If=If$ $IL=\sqrt{3}.if$



E=v-ia.ra

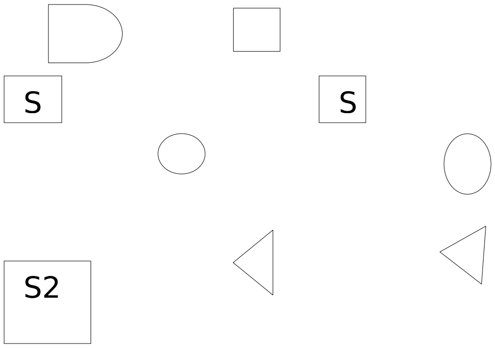
N=v-ia.ra/k∅

1

Tutorial: lecture ,basic subject posted , tutee guarding explainer , teacher ,institutor , instructor memorandum , exam, charted , explain , educator tech , technologies , tutorial register ,

Proof, post grade tutor learning engineering,

-consultant , doctoral analyze operator , activity module, symptom, learn assess , assign did act activity diagnostic symptom ,learning assess didactic discipline educe tech no logic task ,permit license authorization building educator technology allocation control,



x	y					
S1	S2	S1	S2	S1.s2	S1.s2	I
0	0	0	0	0	0	
1	0	0	0	0	0	
1	1	0	0	0	0	
1	1	1	0	0	0	
1	1	1	1	1	1	

Logic system,calcul numeric, ,psychotic proof, simplify fraction ,switch contact, algebraic ,,x proposition power n variable x, n proposition , conversion binary, base binary decimal hexadecimal, ,logarithm diagram sequential, , s1. S2, switch , rectifie, amplificatory, outcome modules, equation switch ,simplify binary switch 0.1.state

Translate French English level , math teacher , educator technology , educator technique , psychotic calculus mental measure drawing , master skill proof , explain low give evidence low quotation low, dividend low, correct low ,

Motion note teacher grade 12,n3 metric 1, month , 3month 60 day kmh 3month , caps curriculum policy assessment, , exchange certificate policy . Proof enclose, coverage graphic

Equation

X+4=12

x+4-4=12-4

x+0=8

=8 ,

Proof equation mental reasoning

Recalculate error, systematic, methodic, means

8+4=12

12=12, proof number mastering counting equation

$(a+b)=a^2+2b+b^2$,

Close, enclose proof,

a=x-4=12

b=x-6=6

Simplify. Proof

3x. y.2

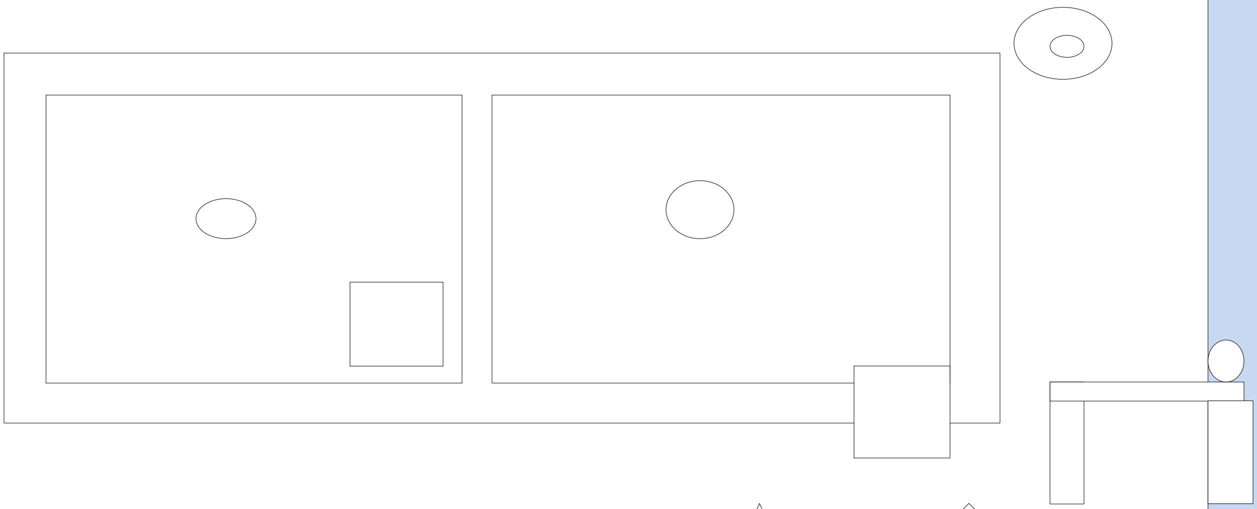
X=1

Y=1

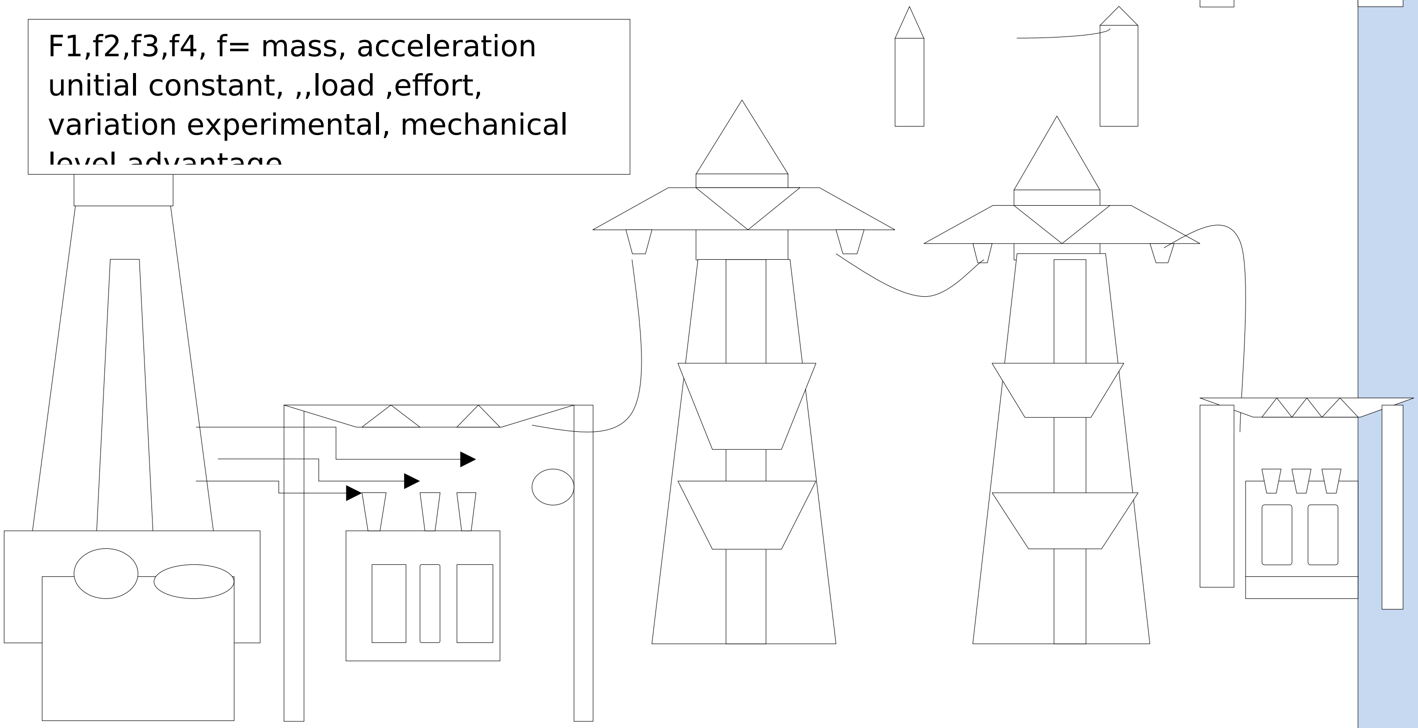
=3(1).(1)

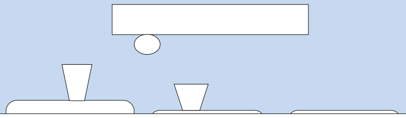
3x2=6 proof number mastering

EXPLANATOR:SCIENCE ENGINEERING , STAIC, KINEMATIC, POWER ENERGY WORK, HEATER , MATTER ANALYSE REPRODUCTION . MODULE DISCOVERY INVESTIGATION , LOAD ,,,



F1,f2,f3,f4, f= mass, acceleration unitial constant, ,,load ,effort, variation experimental, mechanical level advantage





Completed. Explanatory, number sub, station , over load ,maxi

Number support, high voltage, ,

Distance km, 500

Voltage,6,6kv,

Number posted,

Main circuit breaker , ,insulator, section across wire, insulator 6,6kv number dielectrically, parallel, ,, diode dc high voltage industrial,

Vcc insulator, conductivity wire, heater effect , proximited, effect skin, effect joule, … completed, reactance , network maille radial,,, constructor, design

Connection completed trading supply

Construction support structure

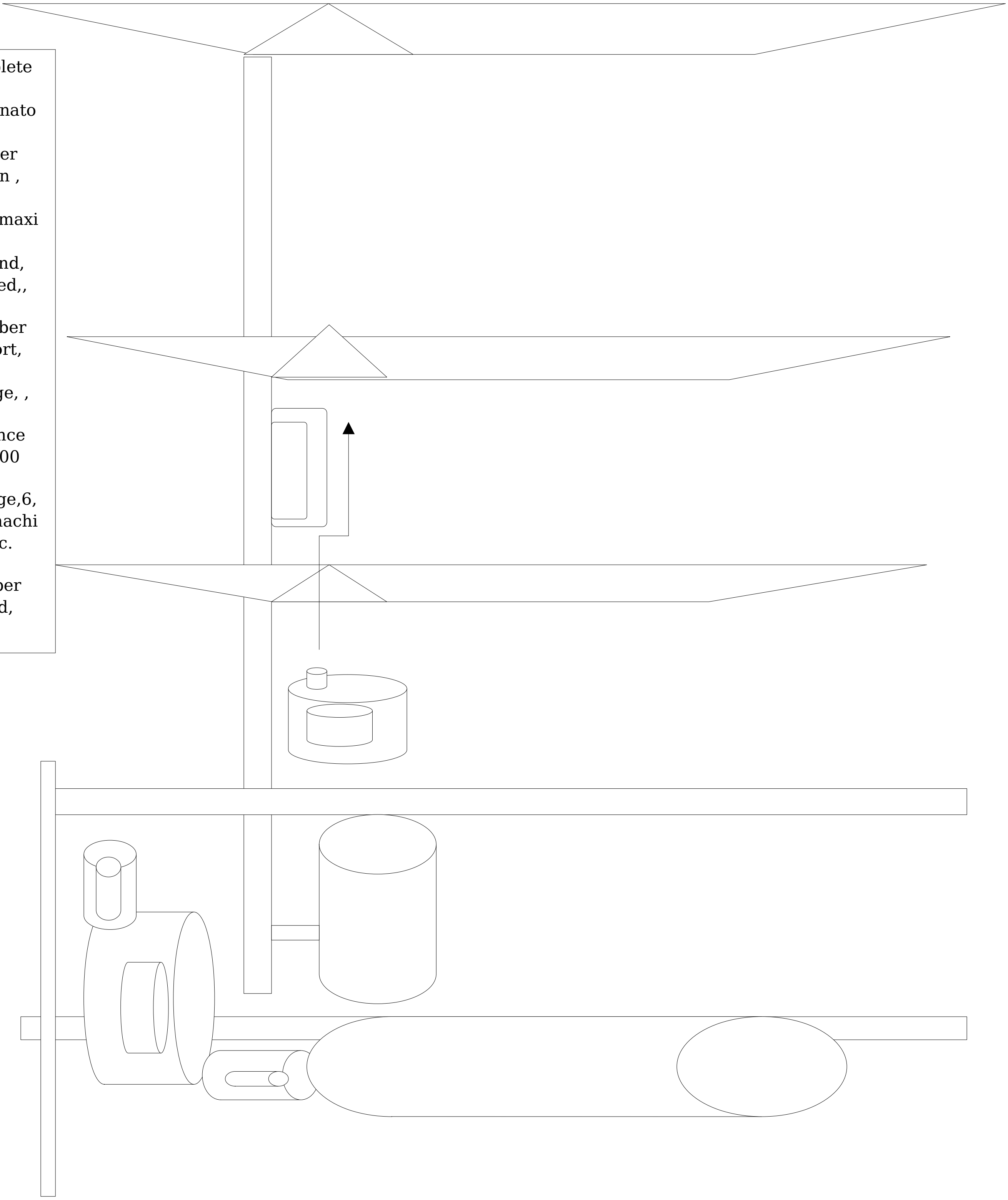
Completed. Explanatory, number station , over load ,maximum demand, allowed,,

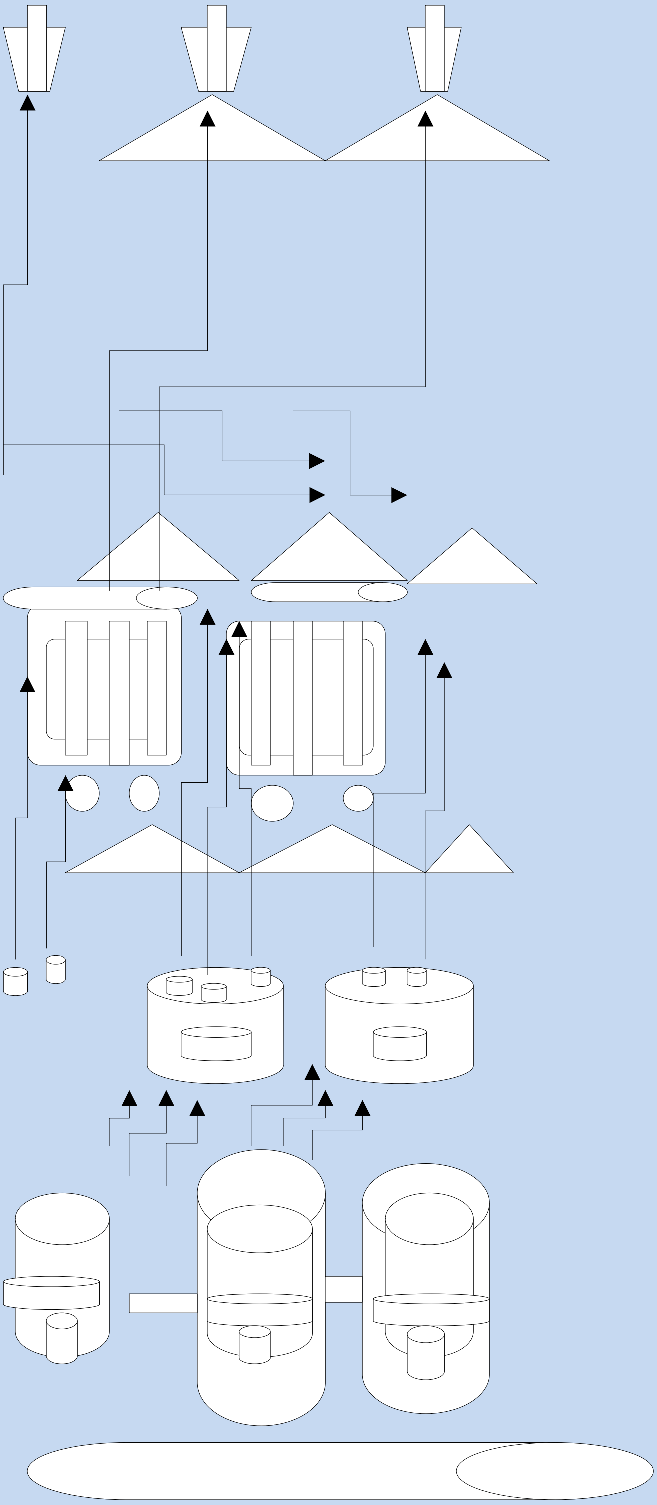
Number support, high voltage, ,

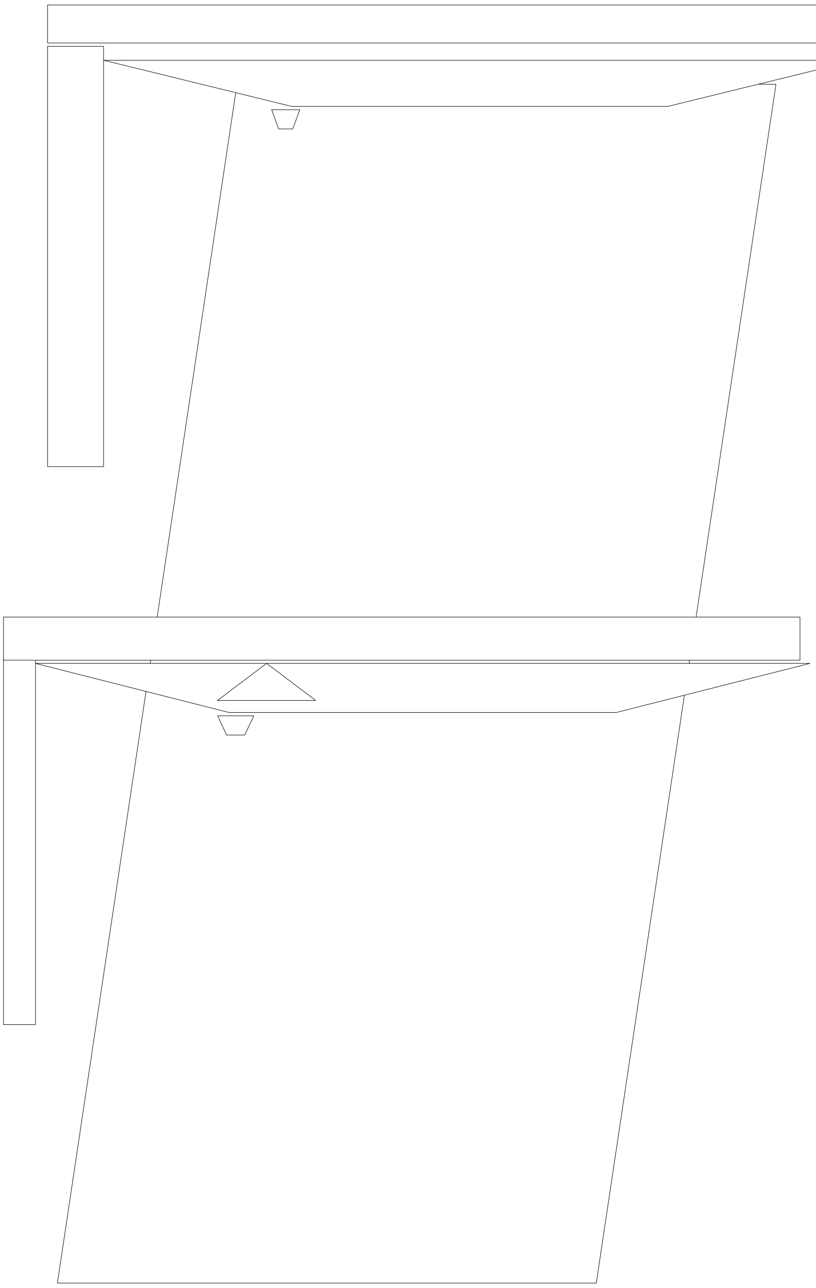
Distance km, 500

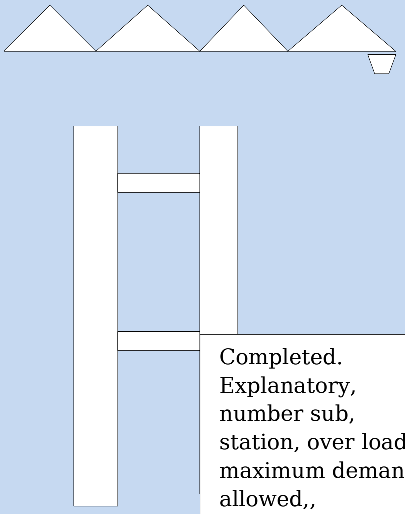
Voltage,6, 6kv,machine , ac.

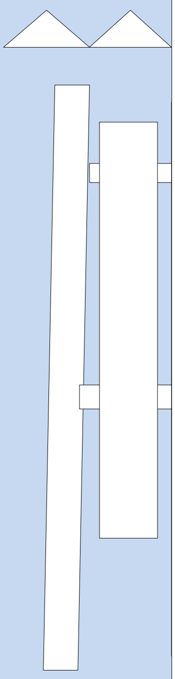
Number posted,











Completed. Explanatory, number sub, station, over load, maximum demand, allowed,,

Number support, high voltage, ,

Distance km, 500

Voltage, 6,6kv,

Number posted,

Main circuit breaker, insulator, section across wire, insulator 6,6kv number dielectrically, dc motor series , parallel, ,, diode dc high voltage industrial,

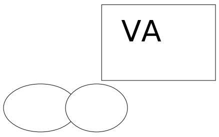
Vcc insulator, conductivity wire pantograph, coefficient,

Completed, , keep regime stationary , regime transitory, machine dc, on line over load relays, command machine, dc, ac current engineering, ,

Insulator high voltage 6,6kv mass dielectrically cv, ,,paratoner, fire escape,

, relays power, current maximum demand relais,,, wattmeter, ammeter, voltmeter, read, value, scale , calculating banking energy kwh,index,years

COMPLETED CIRCUIT



ANTENE , $IT=I1+I2+I3+I4+I5+I6$,

$I1=IT- I2+I3+I4+I5+I6$, $I2=I1-IT$

$VT=V1+V2+V3+V4+V5+V6+$

$RT=L$,

RADIAL $=IT1 – IT2$

$IT=I1+I2+I3+I4+I5+I6$,

$I1=IT- I2+I3+I4+I5+I6$,

$VT=V1+V2+V3+V4+V5$

IN , SYSTEM NEUTRAL ,BALANCE $I1=I2=I3.....IT$ LESS MORE, DELTA START

EXPLANATOR DEMOSTRATION HYPOTHESIS FOUNDAMENTAL : $V=RI$,, EXPLANATION DEMONSTRATION ,

$R=A=\pi r^2\rho$ $= \rho .L/A...$ $V = \rho .L/A.IT$,,,,,,,,,,,,$P=M.ACC$......... DENSITY D SECTION ACROSS MASS ATOMIC , $Z=$ IMPENDENCE , $1/Z$ CONDUCTANCE $V=ZI$. $Z =R-X-C$ ..... $1/XC$/// EXPLANATI

$E1=V1I1+R$

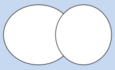
$E2=V2+R2I$

DEMONSTRATE DESCRIB E FORMULAKIRICHOFF HOM LOW ,JOULE LOW ,,EXPLANATOR HYPOTHESIS. EQUATION NETWORK COMPLETED , Z, COS R,Z

$V=VA-VB$ VARIATION

EXPLAIN ....VALUE CONDUCTIVITY
RESITIVITY ,REACTANCE XC,XL,=

VB



S

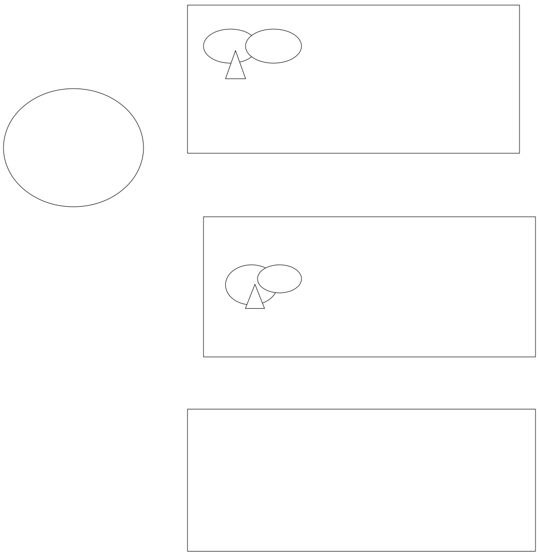
EXPLAIN. DB WIRE POWER IN METER SQUARE , RM

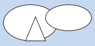
ADD , AMPERE METER, VOLTMETER, DISCOVERY ANALYSE ENGINEERING ELECTRICAL, ENGINEERING DRAWING ELECTRICAL SCIENCE ENGINEERING, TRADING ELECTRICAL ,WIRING ELECTRICAL EXPLANATOR LOW DISCOVERY WIRE THING , REFOUND WIRE, STRUCTURE, LOW , DISCOVEY REFOUND CIRCUIT OVERLOAD TIME DELAY , REACTION PROGTECTION, CONFIDENTIAL,,,, TRAFFIC LOW DISCOVERY RALAY SWITCH DB MAIN CIRCUIT REFOUND , EXPLANATION NTWORK DISCOVERY SKILL CONDITION TRADING EQUATION TABLE,

…………………………………. INVESTIGATE CIRCUIT TRIANGLE RETANGLE VECTOR ANALYSE DISCOVERY LOAD CHARGE DISCHARGE CIRCUIT LOAD, WIRE, FIND FAULT, DAMAGE WARING EXPLAIN LOW , MAIN CIRCUIT BREAKER COVERAGE TIME CLOSE OPEN DISCOVERY REFOUNF ,LOST

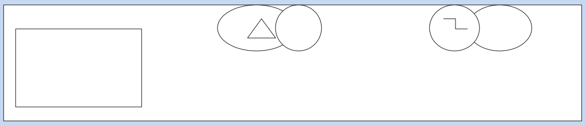
LOCK INTERLOCK, SYSTEM RMS, PEAK POINT COVERAGE MODULE TIME WORK,,REFOUND CIRCUIT, REDRAWING , , EXTRA WIRING MASTERING

POST LOW VOLTAGE
SUPPLY , PANEL LOW

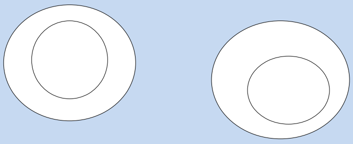




SUB STATION ,CIRCUIT BREAKER , RELAIS PROTECTION FAULT HIGH VOLTAGE. RMS. AVERAGE .



CONTACTOR MOTOR RELAIS CONTACTOR RMS, INSTANOUSE, POWER FACTOR INCREASE CUT CIRCUIT,,OVER LOAD



STATION , EMERGENCE CIRCUIT, INTERLOCK PHASOR, CIRCUIT REACTION VECTOR, EXPLAIN DISPATCHING, TRANSMISSION, DISTRIBUTOR, GENERATION NETWORK, CABLING, ALLOWED , STANDING ACCORDING RULES EIC, CEBEC, SABS , SURFACE SQUARE METER , EXPLAIN ,,

CURRENT CABLING, CIF 5%,, ALUM,COPPER,

MAXIMUM DEMEND, PEAK, RMS, WIRING, , METERING WATMETER.

MAIN CIRCUIT BREAKER , ,RELAY, CONTACTOR DELAY TIME , GENERATING AC CURRENT AVERAGE,MAX MIN FACTOR , POWER ACTIVE POWER APPENTE CABLING , TRANSFORMER RATE TURNING MAXIMU ALLOWER

CIRCUIT RLC LINE TRANSFORME ,WIRE IMPEDENCE C CAPACITOR , LINE

Science engineering material, trade electrical, electrotechnologie logic system electrotechnic engineering analyse discovering skill investigate sabs , sans premise eic, cem

Requirement matrial trade

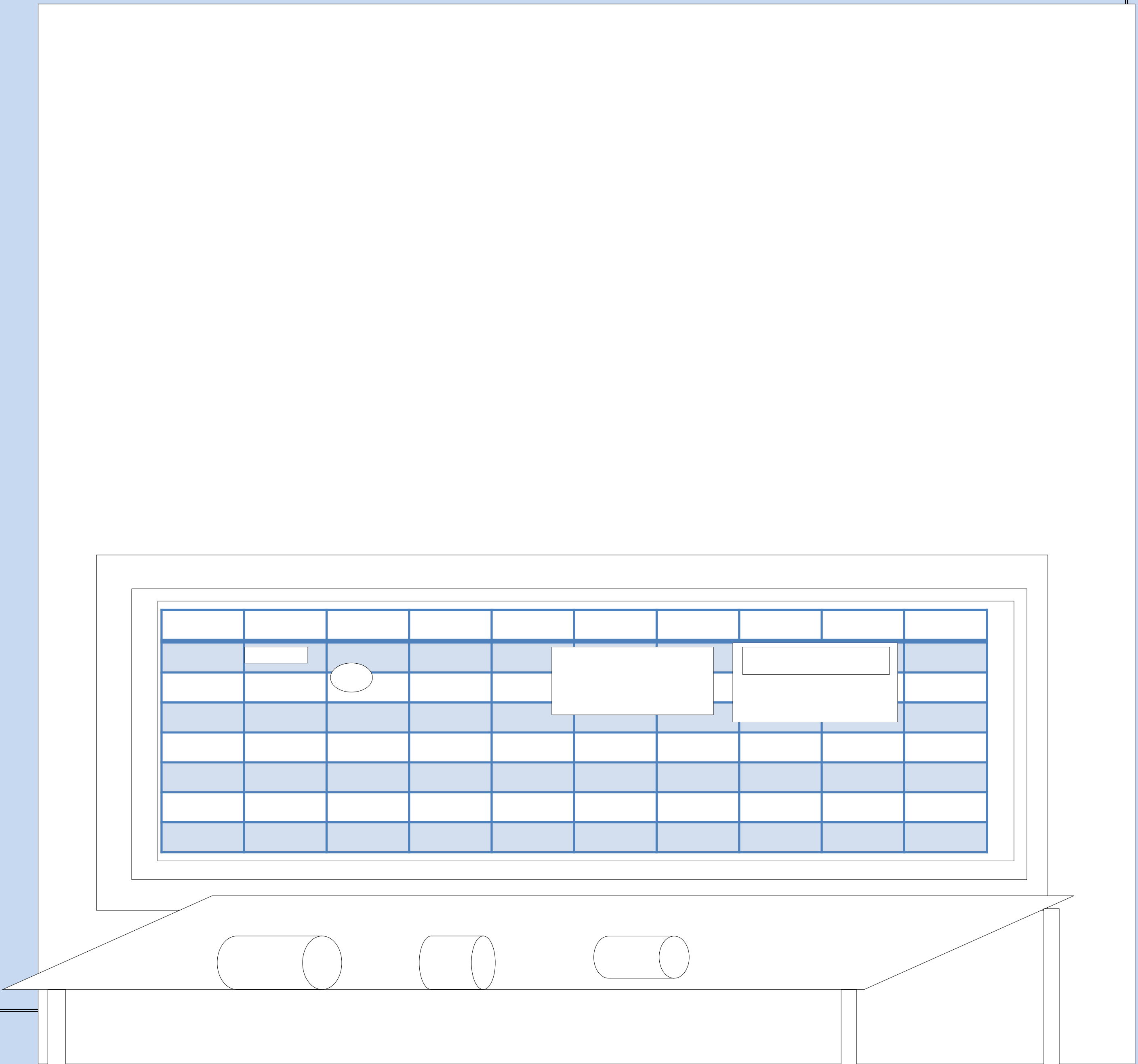
Task,

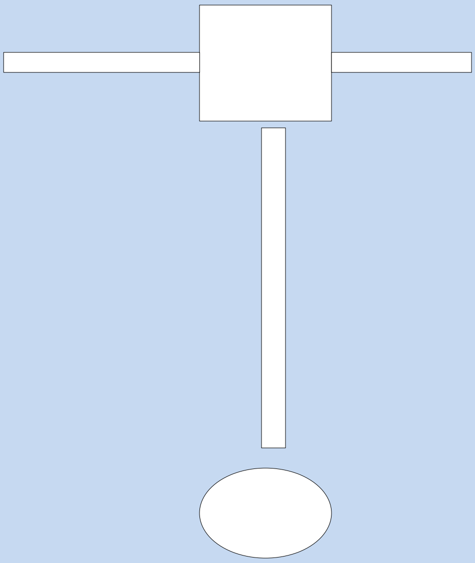
Operational functionel,

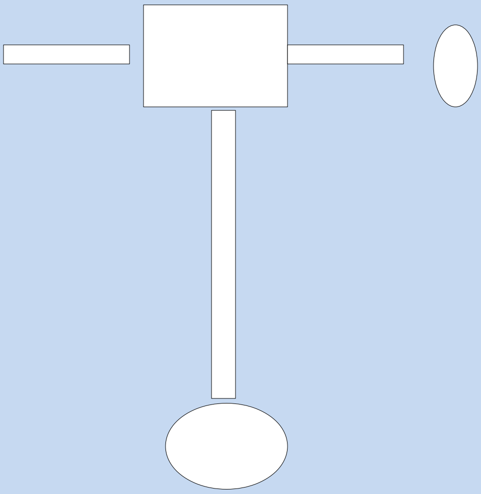
Step , supply wire premise cabling ,,

Requirement matrial trade	**Task,**	**Operational functionel,**	**Step**	**Policy Engineering dail**	**Maintenance equipment Drawing redrawing ,**
			Join cabling		

1max allowed Demand factr Cabling Relay contactor motor					
Ac motor					







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June examination 2022 grade .time 2h hour page..master skills assessment questionnaire.detail.mark.time minute. Skill master matric question...
Trade theory electrical master skill phase trade note teach intermediary.basic..elementairseignor Portofilio.investigation analysis knowledge assessment module skill question value circular compare scaling weight mastering answering questions formal Summative value matric statement.question dreaming explain labell knowledge matric .. orientation industrial planing knowledge synthesis questions answered research fundamental formulation answers..trade theory electrical ..electrical technology logic AC DC current machine low ohm . impedance..resonance. researchreasoning..masteringrwiten CORRECT mastering circulars..

2.Education technology technical engineering trade theory. Educare engineering phase elementaire fundamental knowledge criterion. Intermediate seignor system control process teach lecture tutorial councils research knowledge design didactic model psychology test model development model sheet principle vocational AC DC current low evaluation.oscillator resonance watch guidelines pedagogy model method presentation lecon plan classroom management director class care . knowledge directorate trade theory educare development care maintenance inspection compliance sabs low compliance know legs magnetic.. industrial electronic .module activity lecon ac .DC.curent machine motor transformation measures transmission module knowledge module fundamental assessment.frameworkbregulatory info system knowledge recruitment policy lecture patrol lecon plan .director planing school phasing modules subject faculte.

ID : EVALUATION SAQA APPLICATION 20191130002

_____________________, 202001305040/ 201911130002

ID: N1-N2,N3/N4/N5/N6 , N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION

HIGHER. EDUCATION QUALIFICATION

-FINAL AWARD (DEGREE / DIPLOMAT CERTIFICATE) SUBMITED 1STH/

- NO PROVISIONAL CERTIFICATE OR UNOFFICIAL STEMENTS

-CERTIFIE NO SUBMITE 1TH

-OFFICIAL STATEMENT FROM INSTITUT

- DIPLOMAT D'ETAT EXAM CERTIFIE / NO SUBMITED

-ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION

- REGISTRAR CERTIFICATE NO: COM 18269001: /

- ST PEACE COLLEGE LEVEL N ENGINEERING CERTIFICATE LEVEL 1,2,3,4, REGISTRAR CERTIFICATE NO: COM 18269001:

-FINAL DEGREE/ DIPLOMAT DEGRE SAQA N6 NQF 6/ NQF7 / NQF8 CONTINUE

- SAQA UNIVERSITY DEGREE 1, 2, 3, 4 NQF7/ NQF8 , SUPLEMENTARY PREPARATORY SELECTOR DIPLOMAT

-REGISTRAR FEES: FINAL EXAM DIPLOMAT N / SAQA 50%

-REGISTRAR FEES FINAL

st peace college
filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR: MANAGER /PRICIPAL: CONIE

ST. PEACE COLLEGE

ST PEACE COLLEGE / AND A I P

FACULTY : ELECTRICAL ENGINEERING

St peace college assessment
Engineering faculty.
Filing admission examination
Regular irregularity
Submission completed :
Filing number :
Affidavit number record investigator :
Statement. I'd number invigilator:
Submission number date time :
Level . National n.diplomat
Level national n5..certificate
Level national n 6.

1.Time table examination internal . .1.2.National trade examination
National engineering
Tech matric ncvs exam

2.Calender national technical vocational St peace college.

3.trade theory national examination time table :

4.Circulum policy matric n3.grade 12 final examination diplomat sylabus
Subject.
Weighting scale .
DBE time table subject DBE sylabus matric teacher note books circulum

Subject .NCs trade matric
Subject: n3.n6 caps
N3 trade theory electrical .industrial /grade12 trade theory
Master skill teach note book matric
Assessment .topic activity presentation oral formal Summative assessment
Exam saqa criteria school leavers

N3 /grade 12..orientation industrial)
N3/grade 12. supervisor industrial
N3/grade12.planing organization
N3/grade 12.mathematics
N3/grade12.engineering science
N3/grade12.economic businesses tourism
N3/ grade12.nursing health
N3/grade12..civilcarpentry build science
N3/grade12..mechanical .theory .diesel
N3/grade12..business English /basis English
N3/grade 12..educare . African
N3/grade 12..physic .
Na/grade12. Teach phase police traffic safety. security
Exam questions metric open book
Master skill engineering matric skill
Note teacher skill topic learner
Time table rwiten

Rwitensylabuss completed circular extra grade 12..completed n3integrity
Questions answering
Periodique phase teach lecture
Rwiten question papper internal .question papper .teach learner matric phase circular board exercise book rwiten
..
5.time table national trade certificate diplomat technical .exam labourlicence qualifications Level .
N1.n.2.n3.n.4.n.5.n.6 examination sylabus theory practically national trade examination
Subject trade theory examin certificate
Trade theory basic advanced.filing
Work labour skill trading book hand vocational guidelines circular
5.1.n1.n.2.n.3..4.n.6. Carpenterry examination subject wood work engineering science Plante operation subject trade theory practice sylabus
Master skill labourcarpenterry practical
Labour textbook sans sabs examination learning priority carpenters.
5.2nursing subject . Health promotion procedure health. Pathology labour skill sylabus operational exam engineering clinic

5.3 brickline building science .level exam textbook manufacture relate
5.4.panel wiring electrical level trade they electrical .mathematics . Textbook merseta textbook. Manufacture relate council engineering science engineering
5.5.plumbing firing diesel mechanic
5.6.policing traffic theory national examination theory .
Master skill development trade theory electrotechmaster..trade hand book examin national trade n trade nated 5.7orientation industrial.supervisionplaningindustrial.organisation .
5.8.Development system it

Master. Master doctoral saqa NQF level 6.7.poste doctoral labour relations bargaining engineering..

7..n1.n2.n.3.n.4.n.5.n.6 . Engineering trade national diplomat certificate engineering time table short time full time table high education engineering
7.1.Electrical engineering time table .
7.2.Mechanical engineering time table.
7.3.Civil engineering time table .
Engineering trading examination.and
Sylabus close book examin national engineering diplomat ..
Time table trade theory electrical engineering fundamental n basic system system trade design process trade control trade fabric trade engineering .. fundamental operational requirements trade sylabus explained.

NQF engineering councils engineering trade council .councils education
Textbook engineering art creativity analysis investigation skill
Engineering licensed fundamental.ystem process fabric. Completed exercise textbook. Resolve solve assessment engineering..
examination outcom entry exhibition time table
Level.n1.fundamental basic power engineering study . qualifications NQF.1.2.3.4.5.6.7. invigilator investigator
Textbook questions explanation
Career system advanced machine...control process..projet fabrics
Certificate.
Institutor engineering framework regulatority engineering..

Irregularities center poor rwong policy rwong framework regulatority...

8.educator technology technical .phase assessment inspection tutorial lecture ..
Ergonomics psycholmetric .intermediary elementary seignor teach fundamental
Maintenance care .health development engineer abet caps .. irregularities
Teach trade theory elementaire phase trade and fundamental trade theory industrial circulum ..intermediary trade and system process trade phase ..seignore trade basic teach design teach daily plan and engineering daily planing working low mastering
Subject educare and engineering
Business low career and engineering workshop place..

Professional.professor tutorial counseling vocational.principle .NQF
Educare n4.n4engin labour n4.
Subject ..lecture
Research TVET lecture doc n7...

Poe verification coverage
Designing model didactic
1.subject /assessment task//mark allocation///content average////student programmer////
2.electrical trade theory . electrotechelectrotechnolgy, mathematics , engineering science physics engineering, engineering science.drwaing /assignment//310,302,1000,module safety . studentprogrammer.week study completed
!!!!Engineering processing design low requirements allocation synthesit verification task . sequencegov item 3month 6minth progress
Subject/term 1//term2//total
1.Evidence low organisation supervisor planning
1 .2. Low: supervisor and management product labour low educareeducationelintellectuel care low didadic
Low: engineering final process business engineering career natural low psychometric phenomenon.
Deputy TVET marketing motion policy low framework regulatority mandate irregularity engineering trade reports 190.
Low system development code line Colum matric vertical value..
Low assessment portfolio documents wallet flic floc timer compare electronics mail disclaims posted Relais communication ordering address policy security.message posted officer system cloud protection documents missing documents assessment address postal.
Low policy engineering information management system vsiplylowgov skill administration low implementation system LRA relation labour
Low union police bargaining Ccma low binary information electrocompt onus balance low.
Low test humain resource bpolice induction learner motor industry skill
Low safety police security Union btrade theory electrical gov machinery labour health license commission compliance installation EIC low safety Anand commission motion low safety amand EIC sabs gov framework TVET low compliance training.
Low engineering from electrical rescission power and information intelligence non compliance restrain trade database.material hardware systems in components electrical delay.egineering system process development

Low recreation designing low communication system cloud policy information management system licensed jurisdiction term regulatority 10142-1size minimum 10º000max Portofilio docket system build database relay gate door home control room .space network geotech limited not traffic design try low access control .
Low synchronisation asynchronous information library algebraic system motion rescission safety policy electrotechelectrotechnolgy fundamental power achieve value Poe refund system development cloud police record of legal rescission it rescission engineering recreation trade unions policy procedure labou missing fault dismissed scam spam criminal schedule officer.commission EIC cebec bible ..

Police resolve crime admni information final
Administration learner registration attandanceinvigy learner filing attandancefacitator.learner reward information pay attention.

Low Poe evidence police operational principal low command and control and of land army assessment police operational detention.operation enforcement compliance assessment offence defense patrol methods investigation criminal interview and low enforcement.vrrification enforcement traffic control potential cause determine land record.evidence collection item recommend framework verification subject industrial electronics module electrotech engineering science module allocation mathematics n1.n6..
1.system engineering process management low system process overview required analyse allocation design synthesis verification.wprk break down structure configured

Integration cost and function allocation primary task define sequence functional gov item planning work cost prior.work breakdown electronics system hardware softward data measure test measure support system header switching defense business systems quality long.life..

Verification system engineering fundamental low to explat power distribution system electrical noise communication system bonding shield group safety lightning discharge fault protection communication marking priority output physical architecture product elements decision databases input function archicad enable ipts decision databases.autimate control constrain.

Verification.low evidence thermo electrical coding operational manufacture performance vs current max value DC vs pump power supply of the manufacture comparison of two tech control linear vssm coding system heating pump vs current controller compare ovaralll energy design process thermo electrical estimate interactive byeat parameter power heater rejected vs current load power dissipated dq/St heat rejected vs current allocation function constrain synthetic system elements alternative assessment technology ..

//)Poe evidence low mathematics rules low term monomial binomial trinomial polynomial factorisation.loq sign sum low differential.product quotient low addition subtraction.multiplication.division.low of exponential power low trigonometric angle triangle algebraic identify.low limited low continuity function reasoning low derivative function existing relation.low identify trigonometric.exist.low of integration...

///Poe evidence low physical engineering low system international low symbol name unit name of law relate meter kilograms litre Newtown kilograms lows Pascal amperage ohmwatjoulCelciuskelvin.voltage meter per second.secondkilometres voltage per square metre.henry.faad.herz .

Evidence low static kinematics.dynamics.motiobreasoning.low force required to accelerate f#m.a reasoning angular velocity

Low equilibrium anticlockwise.moments equals to clockwise

Low moment of cylinder volume

Low strength material magnitude area low.hydraulic pump p=f/a.   P=p.g.h. ?...   Low.. PV=m.r.t

Low hook expensive young module reduction low gravity force object Newton..

Poe evidence low trade theory ..electrotech commission international EIC sabs sans isocebec skill development engineer outcome AC .DC power AC.dc.machineSerie exciting independent shunt compound load operational design .

Characteristics load torque power motor single phase low low end magnetic.low magnetic flux cutting a contact low wave mid ordinate rule Iave/g=i1+i2+i3....!in/n) IRM=I.

Low explain generating and supply power.low inductance of signle phase over headline low capacitance directly proportional ....low frequence f=1/2π√lc..

C=1/36×08xloge(d-r)/r...

Low input value power factor delta value low three phase delta connection power=I.(Re .cos| +xesin)x100

Low connected alternator 1200 rev.low transmission line supply power reaction load.pf.linge voltage Eo=VP.zr/Za..cos/.r=R/zr,. S2π.t.(ns_nr)/2π .

Low power factor line current power p=√3.IL.cos.

P1=vl.ilcos(30+0); tanπ=xo/ro.   f=n.p/60.... Eo=n.eff/√3. Zo=R+jix...

Low induction motor E=2,22.k.d.kp.z.|.f.

Poe evidence reasoning judgement low relate construction electronics industry components drwawing electronics switch connector schematics industrial circuit electronics logic.zt=1/z1+2/z2+1/z3.

Low high information filter phase is oscilloscillator motion .low filter LCD.low stable voltage outcome.

Low control voltage frequency counter low detector transducer bridges thermostable .low trigger circuit operational.low explain transistor fixe bias common emittor .

Low explain make wath difference into divider bias RB.rc.vbe.vce..device faulty labell.

Low criteria oscillator irrespective of type wave produced frequency oscillator must stable amplitude output constant provision mode for positive feedback.low required timer 555precission functional monostable DC voltage converter.low operational amplifier audio .apvoltage.non inverter summing.

Low have different ialVo(t) integration comparator..low instrument evidence Schmit trigger and test low type.

Wath alternator difference integrator

Attandance police theory trade..

Formal test 1.2. level

Resolve crime applied policing.on assessment policing engineering.and circular extra subject report learner

Exam

Test topic crime prevention..

Assessment task according to the schedule.

The assessment tools or instruction.rexord of marks
1.Number of units/assessment/coverage
2/formal written test)/one completed topics.
1./interbak written exam /.)all completed topics .
2.practical assessment coverage the related subjects outcom 2320..
Knowledge and comphtension . application//.analysis synthesis and evaluation ...isat integrated
Summative assessment btaskisat student cumulative.session

Exam n4-n6 and n diplomat inquired or umalusi for n3 n.1.n.2qcto resending documents examin irregularities evidence external national
Irregularities n diplomat final engineering
Time table/certificate n1/n/2/n/3/n4.n5.n6.n diplomat full time
Statement certificate
Result
Exam
Internal
Exam test trade council

Master. Master doctoral saqa NQF level 6.7.poste doctoral labour relations bargaining engineering..

7..n1.n2.n.3.n.4.n.5.n.6 . Engineering trade national diplomat certificate engineering time table short time full time table high education engineering
7.1.Electrical engineering time table .
7.2.Mechanical engineering time table.
7.3.Civil engineering time table .
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examination outcom entry exhibition time table
Level.n1.fundamental basic power engineering study . qualifications NQF.1.2.3.4.5.6.7.
invigilator investigator
Textbook questions explanation
Career system advanced machine...control process..projet fabrics
Certificate.
Institutor engineering framework regulatority engineering..

Irregularities center poor rwong policy rwong framework regulatority...

8.educator technology technical .phase assessment inspection tutorial lecture ..
Ergonomics psycholmetric .intermediary elementary seignor teach fundamental
Maintenance care .health development engineer abet caps .. irregularities
Teach trade theory elementaire phase trade and fundamental trade theory industrial circulum ..intermediary trade and system process trade phase ..seignore trade basic teach design teach daily plan and engineering daily planing working low mastering
Subject educare and engineering
Business low career and engineering workshop place..
Professional.professor tutorial counseling vocational.principle .NQF
Educare n4.n4engin labour n4.
Subject ..lecture

Research TVET lecture doc n7...

T

TSHINGOMBEKB TSHITADI <tshingombekb@gmail.com>

Tue, Aug 9, 1:45 PM (5 days ago)

to
me

1.Reasoning for irregularities no submitted.
2.Reasoning judgement no filing dismissal
3.Reasoning method trade required meeting subject
4.Reasoning
Irregularity statement answered.

Irregularity affidavit answers sock
Irregulariti time table . engineering
Resolving assessment
Irregularity lecture
Irregularity meeting classes and faculty irregularity internal assessment external
Irregularity inspection time period trade process duty career investigation.invigilator .
Resolve crime assessment process way learner key learner attention.
Wrong policy meeting unresolved conflic
Wrong framework regulatory unresolved conflic policymentory wrong policy inspection communication admnise skill .
Policy trial separet time table separate sylabus job career task outcom department high efficiency..
Exam next step operation .rwong time table week daily engineering design irregularities principal and management schools policy..rwong registered attandance school fee no attandance learner no sign claim vsrwong registered bad meeting poor meeting record result released poor hand over checking.
Policy ncv ..policy national trade exam focus TVET no institutions school academic .policy rwong safety and security policy ...policy key no sepate team time table holiday assessors challenge for..

T

Tue, Aug 9, 3:44 PM (5 days ago)

to
me

Institute and college assessment exercises book
1 .Time..08:00-08 -90/08:40-09-20/09:20-10:00/10:40-11:20/14:00/
2 .Week day :award certificate course assessment guidelines information guidelines orientation research . Engineering ass./ass test trade exam// assess information orientation assessment engineering exam /// information orientation assessment////information orientation assessment

engineering////information orientation assessment.swmester 1 term 1.2.3.
3.week certificate : assessment engineering trade theory electrical, industrial electronics.mathematics ,physic engineering , engineering science drawing Engineering./trade theory electrical industrial mathematics physics Engineering // . Trade theory /// trade theory//// semester 2.term years 4.5.6
4.Week certificate:ass schools educare ,ass engineering.assessnated assessment test /...//...///...////...////semester 3.term .7.8.8
5.week certificate : asssessor schools efuc ///.////.//// Semester .10.11.12 term
6.week certificate : schools engineering nated .. semester 5.yerm 13.14.16term
7.weel certificate: outcome diplomat
Week diplomat
Time table open outcomes /ass career award information orientation schools self assessmentexament July December November/assessment orientation supervisor planing ass//ass com crime method regulatority info .. orientation EBM communication skill..ass plan paralegal m.t.discount term 18month..

Institute and college assessment award price recognised learner
_assessnent award certificate course assessment
_assessment certificate diplomat
_a conduct assessment registered days
Learner allocation subject 5/4
_process low award diplomat instituts band college career learner lecture
Regulatory 18month2year week presentation credits exercise
Name/surname/I'd number/subject course/ time sign
Tshingombe/Tshitadi.

Total record attandance award 18 months irregularities internal external on line presentation oral Facitator
Information pay files irregularity documents system judgement report marke internal and external.analyse grid icass rubric material trade theory problem material learner solve station police

Time table subject course class studie engineering circulum assessment police and assessement engineering integrity exercise book note book completed system manueldisciplinairy learner conduct , manuel guideline orientation outcome / learner , inspect moderato ,

1 .Time	**08:00- 08 -**	**- 90/08:40-**	**- 10:00/1**	**11:20/14:00/**	**14/**	**14**	**14**	**14**	

		09	**0:40**						
Week 1day 1	award certificate course assessment guidelines information guidelines orientation research . Engineering ass	ass test trade exam	assess information orientation assessment engineering exam	information orientation assessment////information orientation assessment engineering////information orientation assessment.swmester 1 term 1.2.3.	information orientation assessment////information orientation assessment engineering////information orientation assessment.swmester 1 term 1.2.3.				Semester 1.2 Term1,2,3
Week 2 Day	Frame work	Man syt,ass	infor	Ass infor,as	Ass.				semester
Week 3	certificate : assessment engineering trade theory electrical	industrialelectronics. Mathematics	physic engineering	engineering science drawing Engineering./	electrot	Instrul	ptotc		Term semmester
Week 4	certificate:ass schools educare	ass engineering.assessnated assessment test	com crime method regulatority info	orientation EBM communication skill	ass plan paralegal m.t.discount term 18month..				term
Week 5	orientation supervisor planing ass//								term
Week 6									term
Week 7									term

Institute and college assessment award price recognised learner
_assessnent award certificate course assessment
_assessment certificate diplomat
_a conduct assessment registered days

Learner allocation subject 5/4

High education training.
Department training.
High education and training
Your examination number/usamenhonommer

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Examination centre/Eksamenentrun
..,…………………………………………
Subject/bank,…………………..level/…
First ..second .papers
For t paper……..date …………20……..
QUESTIONS/MARK/PUNTE///INITIALS////FOR REMARKING HERMERK
1/H.T.U/..M.SM.CM.////.HT U/E.INITIAL
1.
2.
3.
15.
TOTAL..

QUESTIONS	**MARK/ PUNTE**	**INITIALS**	**FOR REMARKING HERMERK**		
	H.T.U	M.SM.CM	HT U		
1					

TOTAL..					

INSTRUCTION TO CANDIDATE REGARDS THE RWITEN OF THE EXAM
Department of higher education and training.
Republic of South Africa
ADMISSION PERMIT AND EXAMINATION TIME -TABLE.
50408782 N4: ENGINEERING STUDIES

(REVISED)
EXAMINATION NUMBER 2100002023812..ID
EXAMINATION CENTRE
899993812 SHALOM TECHNICAL CENTER .PTY LTD
AFRIC TRAINING

SUBJECT///PAPER ////DATE//// TIME
F8080074 ELECTROTECHNICS N4 EXTERNAL EXAMINATION ////1//20220201////9.000
F8080164 INDUSTRIAL ELECTRONICS N4 EXTERNAL EXAMINATION///1//20220208////9.0
F15070434 ENGINEERING SCIENCE N4-EXTERNAL EXAMINATION 1 200220207//9.00
F16030164 MATHEMATICS N4-EXTERNAL EXAMINATION/1//20220207.9.00
FULL TIME.P.
RE MARKING FOR REMARKING XHEING MUSTE SUBMITTED WITH 10 DAYS AFYER THE RELEASE OF THE RESULTS AT CD NEA ..
CANDIDATE ARE RESPONSIBLE TO ENSURE THAT THEY RECEIVE THE CORRECT QUESTIONS PAPPER TO ENSURE THAT THEY RECEIVE THE CORRECT QUESTIONS PAPPER.
N3 ELECTRICAL TRADE THEORY N3.2022. ..
ID 2004007064381/

Formal technical INSTRUCTIONS in the ra report 191..n n3. ..191..
I'd evaluation saqa application 2019113002/20200130540
Formal RSA 191. Assessment task the icass trimester engineering studies .2010002023812/2004007064381/2011007434332..subject week 2,4//,5,6//8total 2test natural science engineering..
75 78 lecture day general business services lecture.

899993812 center St peace college n5/ n6 , 2100002023812..ID
revised

SUBJECT	**PAPER**	**DATE**	**TIME**
F8080074 ELECTROTECHNICS N4	internal	20220/	9.00
F8080164 INDUSTRIAL ELECTRONICS N4/n5/n6	internal	20220/	9.00
F15070434 ENGINEERING SCIENCE N4/n5/6	internal	2022/	9.00
F16030164 MATHEMATICS N4/5/6	interal	2022/	9.00
N3 ELECTRICAL TRADE THEORY			
INSTALLER RULES			

Analysis grid for all test and must be submitted for Pre assessment moderation..
Subject level learning objectives//questions/formative/short responses /medium response/extend response /mark

Subject level learning objectives	**questions/ formative**				

Weighting:The following weights are consequently awarded to each category

CERTIFICATE AND DIPLOMAT ENGINEERING ELECTRICAL

Knowledge and Understanding	**APPLYING**	**ANALYSE SYNTHESIS EVALUATION**	**INVESTIGATION DISCOVERY/ DESIGN / ASS POL**	**TOTAL CRITERIA CLOSE**
3--40	**30-40**	**20-25**		
			40 ,60	**10 POINT SCORE**
REQUIRED TASK OPERATION				
MATHEMATIC				

ELECTROTECH **POWER MACHINE** **ENGINEERING SCIENCE**				

STUDENT NAME : TSHINGOMBE TSHITADI

ID NUMBER :

ID DIPLOMAT NUMBER : ..Q

SHEET MARK SUBMISSION EXPLANATION EXAM

MODULE /SUBJECT ELECTRICAL ENGINERING	**WEIGHTING**	**OUTCOM CRITERIA CREDIT CLOSE AWARD SCORE FINAL /QUALIFY**
MATHEMATIC **1.** **2.** **3.** **4.** **5.** **6.** **7** **.8**	**100MARK**	**MIN / MAX 100MARK**

ELECTROTECHNICAL	100MARK	
POWER MACHINE	100MARK	
ENGINEERING SCIENCE	100MARK	
ELECTRICAL ENGINEERING DIPLOMA / STATEMENT STATEMENT	400MARK /	400 MARK
RATING		

SCHEDULE CASE REGISTRAR ATTATNDANCE RECORD SHEET AMANDEMENT TEXTBOOK WEEK COMPLETED COVERY , INVIGILATOR, AMANDMENT COPYRITH DARLO. / N1-N3////N4-N6

NAME SURNAME	**WEEK /PRESENT ABSENT**	**ID NUMBE, TEXT BOOK NUMBER ISBN**	**CELL PHONE /TIME/IN OUT**	**SIGN**

allocation /Toalmark.multiple choice medium response short explanation description required a couple's of sentences .extere response long explanation required.pre assessment moderate process lecture response settings a test assessment task.pre assessment.. responsibility time hod.. subject lecture trimester semester manage due.technical criteria content coverage..final approval of the asssessor check layout font submit.. analyse grid.1.2subject aim learner objects are listed.conceptual visual level indicator per questions instruc.spreadconcept..formal cleared correct check page break spacing criterion content..content lecture subject assessment file item file.class registered subject sylabus work schedule plan work plant pace .plan lesson and teaching resources.

Evidence of additional support task as required improve.munite of subject meeting.does does the assessment file containing,.moderatorreport.evidence of post assessment moderate handrwite or ... subject.level.program drop total.percentage total plane .. trimester assessment task tool content duration mark moderator submission date Pre assessment.assement date completion date of post moder..

1.Subject. Years.... trimester ..

icass trimester mark sheet..Cass mark task

.final icassmark..test..test convent the mark to weighted /%total 100..

Irregularity..forfeitresultat be suspended from writing exam for 11month..examadminission permit and examination instructions....

Check.

Task efficiency time management..standardrequired.correctly per the standard required.4_5.

Required struggle management organisation completed..correct task standard.

Task criteria possible weight area..

Evaluation is conducted continuously means two formal test college test mark 40bfinal exam electrotech engineering

Knowledge and understanding., applying, analysis synthesis and evaluation. Rwiten

Information processing n5.n.6

..guidy marking.

The candidate cannot fail because could not completed or pass the timed accuracy.
Total questions Papp ..pepetive accuracy process errors must indicated red repetitive accurate..
All key.
Method marking..possible mark .if only 1/4of questions is completed original mark will be used for marking of questions complex originally..
Mark for all the question .row mark diverse by 3..
Questions continued.
Total mark .=50 1/2= accuracy =40
Display=10..becomes full mark ..
2.computer practice
Database documents the doc save.diagram chart. Show step step. Diagrams the represents an Lgorith.
The boxes are connected by line arrows.can give step problems.
Organisation structure of a company.
Structure not .
Process operational brepresented .
Connecting arrountflow .

3.sectiom basic principles of law .
Section b account.

High education department / saqa / st peace college   portfolio tshingombe tshitadi

1..register saqa admin .national framework regulatory qualifications . institutes foreigners/

Credit subject entry .nqf1.12..

Award diplomat work day certificate.1th,.2.th.,3th,,4th level

I'd number submitted.. record

Academic transcript learner student lecturer..

N national certificate diplomat.

Credit equivalent entry evidence explain

50%..50/100..equivalent. award minimum. meeting

Name surname credit accredit minimum

I'd/name/years qualifications//provision//. Move file in out

I'd	Name surname	years qualifications	provision	file student	submitted document file	Courses attendance	exam attended

Total Entry Move Performance							

Move file submission student term 1,2,3,4,5,6 / semester periodic record / 3month entry 2 week lecture move ,

Subject File student	**subject**	**term**	**years**	**score**	**Final marks**	**Final point**	**Finl submiss doc**	**Final att**	**Final exam**

1.register national examination ,

N diplomat. Examination n 1.n6 diplomat t1.

I'd /name /years///file student/submitted document file///

Courses attendance////exam attended

I'd	**Name**	**years**	**file**	**submitted**	**Courses**	**exam**

number	**surname**		**student**	**document file**	**attendance**	**attended**

I'd number registered.regulier diploma n

18month.attandance.term 1.term2.term.3week

Level1.2.3 minimum engineering electrical learning national trade

Registered.. regulier/

I'd number candidate.//.I'd regulier.//

I'd name///class level///file number//submitted number ///documents attached

National

I'd number	**class level**	**file number**	**submitted number**	**documents attached**	**Courses attandance**	**exam attended**

N1.n3..rwiten final engineering

N1,N2, council test trade .

Councils education..

I'd number candidate irregularity register

Reg .I'd number submitted.

Rectorat college director principal

System

College internal registered. St peace

And institutor ..distance university

.grade..1..12... level 1.2.63.4.5.6

Under graduat .1.2.3.4

Learner

Teacher

Lecture

Professional

Subject faculty admnise

Regularity .. irregularity ruling

I'd name . Term 1.2.3.4.5.6.7.8.9.semester1,2

Report internal diploma.certificate award . internal statement internal report . homework classwork test .exam internal sylabus hand book campus module practice.

.grade..1..12... level 1.2.63.4.5.6	
Under graduat .1.2.3.4	
Learner **Teacher** **Lecture**	
Subject faculty admnise	
Regularity .. irregularity ruling	
I'd name . Term 1.2.3.4.5.6.7.8.9.semester1,2	

Report internal diploma.certificate award . internal statement internal report . homework classwork test .exam internal sylabus hand book campus module practice.

Assessment assignment homework practice theory skill give to student to prove if student at home classes on completion is capable to resolve trade theory Test is capable to working by self group peer

Module correct diagnostic

Manufacture maintenance testify attest award brevet certificate is true

Recording examination.diplomatic to council of test function working yes and to evaluate grade level n it test comming rather working nice.

T

Test circuit.nice erroneous value home.

Test operational Commission.

1.homework class work exercise books topics research on line Poe exercise book.//capacity to make reproduct analyse rwiten.///criteria minimum requirements 100

homework class work exercise books topics research on line Poe exercise book	capacity to make reproduct analyse rwiten	criteria minimum requirements 100		

2.test evaluation module topics test research Poe's /functional school academic task system function.///

test evaluation module topics test research Poe's	functional school academic task system function			

3.examination evaluation diagnostic module external internal /low competency year term weekend rating period achieve rerwite.

examination evaluation diagnostic module external internal	**low competency year term weekend rating period achieve rerwite**			

Remark.////

Skill engineering

Criteria meet award low saqa questions5 interpretation

Operational control

Good

..

Designing... workplace workshop..

...

[Message clipped] View entire message

TSHINGOMBEKB TSHITADI
<tshingombekb@gmail.com>

Aug 20, 2022, 9:03 PM (14 hours ago)

to
me

Check.procedure check calibration operationa explanation material conduct insulation magnetic Armie conductor low.

AC.rc current installation check panels check. Calibration operational current formula low.

Resistivity conductive aupra conductivity impedance.z. 1/z,1/r resonance test instrument class value correct instrument model AC DC characteristics operational efficiency correct../

Entry assessment credit module completion.. value engineering

Outcome exhibition assessment process control technologies.

Instrument method measure screening outcome compulsory.component engineering electrical subject meet award original meet certificate registered extra circulum .

Operational task module entry criteria ward . transcript.. operational,

field magnetic flux meter light ..cell densimeyer checking..

Power factor maximum demand check .

volmeter

amete

w

kwh

kvhr

cos

v

a

SPECIFIC QUESTION ASSESS ENTRY /POWER OUTCOM TEST

Unity design Calibration	**A**	**V**	**W**	**KWH**	**KVARH**	**COS**	**OHM**	**UF**	
C RAD S ERROR MEANS									

minimum maximum value RMS value nominal maximum circuit breaker way .Relay delay timer fuse maximum value rating trading db box maximum value..inom.imax switch circuit way .bulb lighting trade minimum cost value . metering cost value.. installation specifications

material trade power supply.minim.balance equilibrium circuit, ligne transformation value trade motor load AC DC current

value current.line 1,2,3. Compliance safety security trade required operational miniu time operational network.prevention health first aid, components

VALUE					**R**				
NOMINAL, MIN Max Rmx avg									
Unity /m/ squar									
switc									
cable									
bulb									
tfo									

SPECIFIC QUESTION answer / ASSESS ENTRY /POWER OUTCOM TEST correct

3.tools assessment. ,

A

V

W

KWH

KVARH

COS

TEST	**A**	**V**	**W**	**KWH**	**KVARH**	**COS**	**NEFF**	**TORQU**	
VALU NOMINA MINIAL SHORT CIRCUIT MAX AVER RMS									
UNITY									
AC DC CURENT RELAIS SWITC CONTACTOR									
MOTOR DC AC									

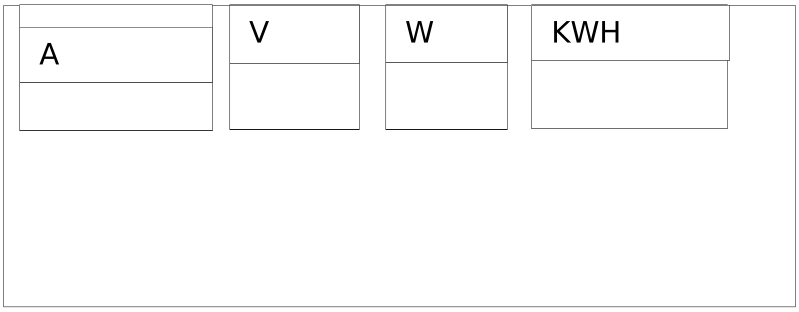
test operational transmission overall. Overload system transmission generation plant power test ,insulation test safety security

Inspection circuit breaker circuit gear .. inspection transmission insulator support network test arena radial test cabling distance effect network.

Control dispatch distribution system distribution load,

Fundamental system control . Low

Line current phase curent



evaluation characteristics specific.soldering resistor capacitor active passive elements manufacture test criteria..test transistor phototransistor circuit

transistor value load efficiency.tyristor disc triac silicon integration circuit operational transistor test multimeter amperage

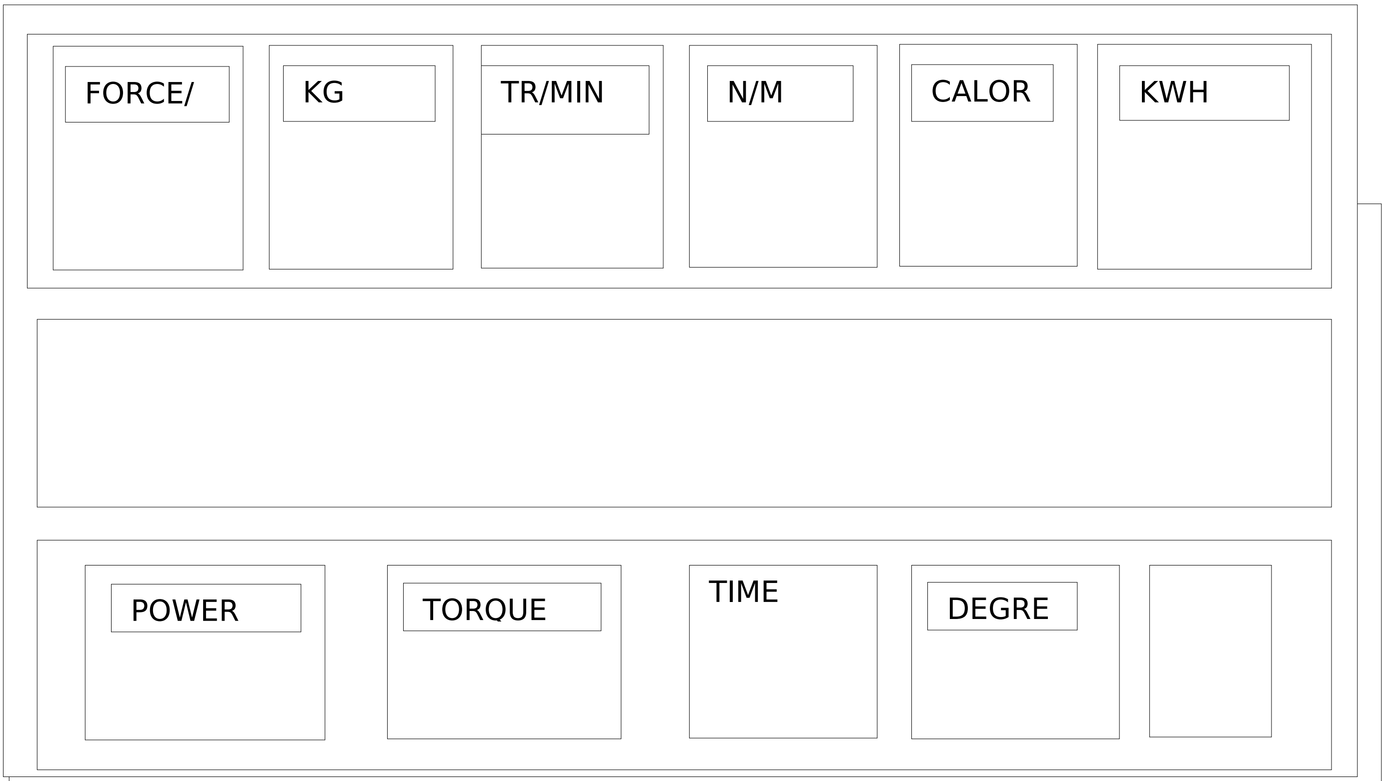
voltage bias relever.. Kirchoff low,step . detection transducer motor DC AC magnetic measure . oscilloscope digital PC test value alternative.. regulatory test ..logic diagram register process electronic key lock timer summer test ,.

TEST VALUE NOMIN MIN	**A**	**V**	**W**	**KWH**	**KVAR H**				
UNITY									
VCO/ICO/RCO SHORT CIRCUIT LOOP DIOD, TANSITR,TY RIST,									
TEST CIRCUIT LOOP									
VHF HF RF									

Engineering science static analyse specific load experimental control kinematic level doped velocity distance initial..test odometer calibration bank test panel car..power test material strength. Momentum test level turning test dynamometric key ..

Fulcrum pulled test pandil .test rather . electricity low test electro test..heater colorimetric test specific test break energy kinetic friction . Min max load

Test hydraulic ..pressosta thermometer. Conductivity heater test



VALUE	FORC	KG	TR/MI	N/MIN	CALO	KWH	POW	TORQ	DEGREE
LOAD MIN LOAD MAX									

	ALGEBRAIC	RIGONO	GEOMETRY	MENSRATION					
VALUE									
MEAN									
MIDPOIN									

…

Faculty: engineering electrical

Moderator:

Assessor :

STUDENT NAME : TSHINGOMBE TSHITADI

ID NUMBER CERTIFICATE :

ID NUMBER AWARD :

ID DIPLOMAT NUMBER : ..Q

TEST 1 :MATHEMATIC / FACULTY ENGINEERING : ELECTRICAL

PREPARATORY PHASE AND SELECTED ORIENTATION : ASSESSMENT N4/ N5 / N6

- **CERTIFICATE : PREPARATORY / DIPLOMAT CRITERIA CONTINUING SUPLEMENTAIRY**

TIME 3 HOUR S/

SUBJECT : ASSESSMENT , MODERATOR/ POL

- EXPLAIN: $2a^2+3b^2=4c^2$ $A=\pi r^2 10$ 10 MARK AWARD
- DISCUSS: $\log_2 8+\log_4 16=\log_5 50$ 10 MARK
- EXPLAIN: $\lim_{X-2}\frac{2X+4}{1X+4}$, $\lim_{N\to 2}\left(1+\frac{1}{4}\right)^n$ 10 MARK
- CALCULATE THE VALUE OF : $\begin{matrix}1 & 0 & 0\\ 0 & 1 & 0\\ 0 & 0 & 1\end{matrix}=DETERMINANT\,NUMBER$ 10 MARK
- LIST 4: METHODE IDENTITY $\tan^{-1}90-\cos^{-1}45=\tan^{-1}45$ 10MARK

- STATEMENT ARE TRUE OR FALS $\frac{-b\pm\sqrt{b^2-4ac}}{2a},=\sqrt{a^2+b^2}$ PROOF 10 MARK
- CALCULATE THE VALUE OF $\int \frac{\Delta y}{\Delta x}+\text{¿}\frac{dy}{dx}\text{¿}$, X=3, Y=4 EQUATION 10 MARK
- CALCULATE : $\int_{-2}^{2}\frac{3X+9}{3X+6}$,FIND 10MARK
- DRAWING AND EXPLAIN $\frac{\Delta y}{\Delta x}, Y=MX+C, \frac{dy}{dx}$ 10 MARK
- DESIGN ANALYSE INVESTIGATE :$\begin{matrix}1 & 0 & 0\\ 0 & 1 & 0\\ 0 & 0 & 1\end{matrix}, \max_{0\le x\le 1} x e^{-x^2}, \begin{matrix}1 & \text{¿}\\ 1 & \text{¿}1\end{matrix}$ 10 MARK
-

EXAM : MATHEMATIC

PREPARATORY PHASE AND SELECTED ORIENTATION : N4/N5/N6

- **CERTIFICATE : PREPARATORY / DIPLOMAT CRITERIA**

TIME 3 HOUR S/

SUBJECT :

- EXPLAIN: $2a^2+3b^2=4c^2$ $A=\pi r^2 10$ 10 MARK AWARD
- DISCUSS: $\log_2 8+\log_4 16=\log_5 50$ 10 MARK
- EXPLAIN: $\lim_{X-2} \frac{2X+4}{1X+4}$, $\lim_{N\to 2}\left(1+\frac{1}{4}\right)^n$ 10 MARK
- CALCULATE THE VALUE OF : $\begin{matrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{matrix} = DETERMINANT\,NUMBER$ 10 MARK
- LIST 4: METHODE IDENTITY $\tan^{-1}90-\cos^{-1}45=\tan^{-1}45$ 10MARK
- STATEMENT ARE TRUE OR FALS $\frac{-b\pm\sqrt{b^2-4ac}}{2a}, = \sqrt{a^2+b^2}$ PROOF 10 MARK
- CALCULATE THE VALUE OF $\int \frac{\Delta y}{\Delta x} + ¿ \frac{dy}{dx} ¿$, X=3, Y=4 EQUATION 10 MARK
- CALCULATE : $\int_{-2}^{2} \frac{3X+9}{3X+6}$,FIND 10MARK
- DRAWING AND EXPLAIN $\frac{\Delta y}{\Delta x}, Y=MX+C, \frac{dy}{dx}$ 10 MARK
- DESIGN ANALYSE INVESTIGATE : $\begin{matrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{matrix}, \max_{0\le x\le 1} x e^{-x^2}, \begin{matrix} 1 & ¿ \\ 1 & ¿1 \end{matrix}$ 10 MARK

$$\int \frac{3x+4}{9+4x}\,dx$$

Weighting:The following weights are consequently awarded to each category

CERTIFICATE AND DIPLOMAT ENGINEERING ELECTRICAL

Knowledge and Understanding	**APPLYING**	**ANALYSE SYNTHESIS EVALUATION**	**INVESTIGATION DISCOVERY/ DESIGN / ASS POL**	**TOTAL CRITERIA CLOSE**
3--40	**30-40**	**20-25**		
			40 ,60	**10 POINT SCORE**
REQUIRED TASK OPERATION				
MATHEMATIC **ELECTROTECH** **POWER MACHINE** **ENGINEERING SCIENCE**				

STUDENT NAME : TSHINGOMBE TSHITADI

ID NUMBER :

ID DIPLOMAT NUMBER : ..Q

SHEET MARK SUBMISSION EXPLANATION EXAM

MODULE /SUBJECT ELECTRICAL ENGINERING	**WEIGHTING**	**OUTCOM CRITERIA CREDIT CLOSE AWARD SCORE FINAL /QUALIFY**
MATHEMATIC **1.** **2.** **3.** **4.** **5.** **6.** **7** **.8**	**100MARK**	**MIN / MAX 100MARK**
ELECTROTECHNICAL	100MARK	
POWER MACHINE	100MARK	
ENGINEERING SCIENCE	100MARK	
ELECTRICAL ENGINEERING DIPLOMA / STATEMENT STATEMENT	400MARK /	400 MARK
RATING		

N6

NAME SURNAME	WEEK /PRESENT ABSENT	ID NUMBE, TEXT BOOK NUMBER ISBN	CELL PHONE /TIME/IN OUT	SIGN

certificate: REGOGNISE SCHOOL FOLLOW ING COURSE : LEARNING ASSESSMENT MODERATOR

Booking mark:

CERTIFICATE: STATEMENT

That certify and award recognize with successfully completed:

Subject: engineering electrical

Subject: learner assessment and moderator engineering, police

Statement field qualify: examination assessment completed

COLLEGE AND UNIVERSITY WORK SCHOOL:

NAME:

SURNAME:

ID NUMBER:

LEVEL QUALIFIES:

Merited excellence appreciation: award certificate

Signature: DAY
BY MANAGER ASSESSOR AND MODERATOR teacher
assessor.

Officer assessor

DIPLOMAT; statement award

That diplomat and award recognize with successfully completed:

Subject: engineering electrical

Subject: learner assessment and moderator engineering police

COLLEGE AND UNIVERSITY WORK SCHOOL:

NAME:

SURNAME:

ID NUMBER study and work:

LEVEL QUALIFIES:

Merited excellence appreciation:

Signature: DAY
BY MANAGER ASSESSOR AND MODERATOR: teacher assessor.

Officer assessor:

COLLEGE AND UNIVERSITY WORK SCHOOL: student badge accreditation: ass /

NAME:

SURNAME:

ID NUMBER study and work:

LEVEL QUALIFIES:

Credit:

Enrolment :

PRACTICAL –ENGINEERING ELECTRICAL - PRACTICAL WORKSHOP AND LABORATOIR PROJECTION ENGINEERING -- POLICE ENGINEERING , ENGINEERING ELECTRICAL - PRACTICAL WORKSHOP AND LABORATOIR PROJECTION ENGINEERING INVESTIGATE CONDUCT, DETECTION TRAFFIC VEHICLE PATROL --------ASSESSMENT STATIONNAIRY WIRING TABLE DISCOVERY FAULT FIND PROTECTION DEVICE INSTALL RULES SAFETY -- ELECTRICAL WIRE ,logic system, control system,,,,electrotechnologie, mechatronics, n1,n2,n3 ,n4,n5,n6

RESEARCH DRAWING WIRE ELECTRICAL CIRCUIT CONNECTION TEST .

COLLEGE TRADING PRACTICAL MAKING THINGS.

COLLEGE INDUSTRIEL PRACTICAL ENGINERING ,,TEST

EXAMINATION EVALUATION LIBRARY . DISCOVERY

Author submission tshingombe tshitadi: student

Learner teacher and educatory: Connie

Policy assessment peace college and africat institute police : Mr Jackson

Security and safety st peace college Mr. Jackson

fiston tshingombe **Sun, Mar 13, 11:18 AM (6 days ago)**

---------- Forwarded message --------- From: fiston tshingombe <tshingombe520@gmail.com> Date: Sat, Mar 12, 2022 at 12:10 PM Subject: Fwd: Delivery Status Notif

foreigninstitutions **Fri, Mar 18, 11:51 AM (23 hours ago)**

to
me

Dear tshingombe tshitadi fiston

The purpose of this foreign institution's enquiry service is to give some direction regarding accredited and non-accredited foreign institutions.

Please contact verifications@saqa.org.za for information pertaining to the accreditation status of South African institutions and their qualifications.

Kind regards

Directorate Foreign Qualifications Evaluation and Advisory Services

SAQA

The National Qualifications Framework (NQF) Act 67 of 2008 mandates SAQA to provide a foreign qualifications evaluation and advisory service, which it does in accordance with the Policy and Criteria for Evaluating Foreign Qualifications within the South African NQF, as amended (March 2017). Section 29(a) of the Policy and Criteria stipulates the requirements that a foreign awarding institution must meet for its qualifications to be recognised.

From: fiston tshingombe <tshingombe520@gmail.com>
Sent: Saturday, 12 March 2022 10:51
To: foreigninstitutions <foreigninstitutions@saqa.co.za>
Subject: Re: Delivery Status Notification (Failure)

Thank you for your assistance.

foreigninstitutions	**Mar 11, 2022, 10:10 AM (1 day ago)**

to
me
Dear fiston tshingombe

Dear fiston tshingombe

We are unable to trace your original request.

Please log your enquiry on the SAQA website at www.saqa.org.za (go to Services, Evaluation of Foreign Qualifications, Check the status of Foreign Institutions). Then follow the on-screen instructions.

Please note only one institution may be queried per submission. It is important that all information is fully and accurately entered to ensure the accuracy of SAQA's replies

Alternatively, kindly respond to this email and provide the following information:

Full Name :tshingombe tshitadi fiston

Email Address : tshingombe520@gmail.com

Country Enquiring From :dr congo

Purpose of Enquiry :high education departement
examirregularity@dhet.gov.za ,n3,n4,n5,n6 enginering electrical

Institution Details : st peace college and africa institut police

Website Address : https://stpeacecollegeafricpolicinginstitute.business.site/

Institution Physical Address : 19 Harries St, Marshalltown, Johannesburg, 2107

Kind regards

Directorate Foreign Qualifications Evaluation and Advisory Services

SAQA

The National Qualifications Framework (NQF) Act 67 of 2008 mandates SAQA to provide a foreign qualifications evaluation and advisory service, which it does in accordance with the Policy and Criteria for Evaluating Foreign Qualifications within the South African NQF, as amended (March 2017). Section 29(a) of the Policy and Criteria stipulates the requirements that a foreign awarding institution must meet for its qualifications to be recognised.

ST PEACE COLLEGE :

GUIDELINE MARKING

CIEF MARK

LECTURE MODERATOR:

LECTURE ASSESSOR :

MANAGEMENT MARKER :

ST PEACE COLLEGE : AND AFRICAT INSTITU POLICE	**CRITERIA MINIMUM SELECTOR YES OR NOT**	
FACULTY ENGINEERING: DIPLOMAT AWARD CERTIFICATE ELECTRICAL /CIVIS /MECHANICS. POLICY . MATRIC N3 FINAL		
STUDENT NAME : / TSHINGOMBE TSHITADI		
LEVEL : NQF 1,2,3,4,5,6,7,8, QUALIFY AWARD DEGREE DIPLOMAT **LEVEL : N1,N2,N3,N4,N5,N6,N7,,** **LEVEL : ASS1,2,3,4,4,4,4,**		
ID NUMBER :		
SELF ASSESSEMENT **PEER ASSESSMENT** **GROUP ASSESSEMENT**		
ATTANDACE TIME TABLE COURSE SUBJECT DAYS : STUDENT DUTY **SUBMISSION** **COMMENT :**		

REGISTRAR PREVISION STUDENT DAYS AVERAGE :

RECORD INVIGILATOR PRINCIPAL DUTY GUIDLINE CONDUCT

REGULARITY SUBJECT PREVISION: SUBJECT 4,5

IRREGULATY SUBJECT PREVISION 4,5

-STUDENT NAME / AND LECTURE SELF LEARNER	ID NUMBER	CELLPHONE NUMBER	TIME ENTRY SUBJECT TIME OUTCOM SUBJECT:CRITERIO, OVER	SIGNATURE
TSHINGOMBE TSHITADI				

ATTANDACE TIME TABLE COURSE SUBJECT DAYS : STUDENT DUTY PREVISION , N5-N6/ REVISION N1,N2,N3,N4,N5,N5

TERM 6-7-8///REVISION TERM1,2,3,4,5,6

LECTURE ID NUMBER

SUBMISSION : PERIOD : PHASE LECTURE ELECTIVE

TIME	M	T	W	F	T	S
7H00	INDUSTRIAL ELECTRONICS	ELECTROTECHNICS	MATHEMATICS	ENGINEERING SCIENCE ENG /PHYSIC	INFORMATION MANAG SYST	
8H00					-PROCESS INFO	
9H00					OPERATION POLICE -	
10H00						
11H00						
12H00	TRADE THEORY ELECTRIC	ELECTROTECHNOLO	ORIENTATION PLANING SUPERVIS	POWER MACHIN MECHANOTECHN	TRAFFIC ENGINERING BARGANIG	
14H00	LOGIC SYST	PROTECT DEVIS				

ATTANDANCE TIME TABLE TEST TRADE COURSE SUBJECT

TEST PERIOD AWARD PRACTICE

SUBMISSION : PERIOD : PHASE LECTURE ELECTIVE, CORE ,FUNDAMENTAL, SYSTEM

SUBMISSION : PERIOD : PHASE LECTURE ELECTIVE

TIME	M	T	W	F	T	S
7H00	INDUSTRIAL ELECTRONICS	ELECTROTECHNICS	MATHEMATICS	ENGINEERING SCIENCE ENG /PHYSIC	INFORMATION MANAG SYST	TRAFFIC ENGINERING BARGANIG
8H00					-PROCESS INFO	POLICY PRICING
9H00					OPERATION POLICE -	LABOUR RELATION
10H00						
11H00						
12H00	TRADE THEORY ELECTRIC	ELECTROTECHNOLO	ORIENTATION PLANING SUPERVIS	POWER MACHIN MECHANOTECHN	TRAFFIC ENGINERING BARGANIG	MANAGEMENT SUPERVI PRODUCT PARALEGAL
14H00	LOGIC SYST	PROTECT DEVIS				

ATTANDACE TIME TABLE ENGINEERING COUNCIL DAYS SUBJECT

TEST AWARD CERTIFICATE PRACTICE

SUBMISSION : PERIOD : PHASE LECTURE

SUBMISSION : PERIOD : PHASE LECTURE ELECTIVE

TIME	M	T	W	F	T	S
7H00	INDUSTRIAL ELECTRONICS	ELECTROTECHNICS	MATHEMATICS	ENGINEERING SCIENCE ENG /PHYSIC	INFORMATION MANAG SYST	
8H00					-PROCESS INFO	
9H00					OPERATION POLICE -	
10H00						
11H00						
12H00	TRADE THEORY ELECTRIC	ELECTROTECHNOLO	ORIENTATION PLANING	POWER MACHIN MECHANOTE	TRAFFIC ENGINERING	

			SUPERVIS	CHN	BARGANIG	
14H00	LOGIC SYST	PROTECT DEVIS				

A TTANDACE TIME TABLE EXAMINATION DAY EXTERNAL INTERNAL

INVIGILLATOR NAME:

PHASE LECTURE   ELECTIVE

TIME	M	T	W	F	T	S
7H00	INDUSTRIAL ELECTRONICS	ELECTROTECHNICS	MATHEMATICS	ENGINEERING SCIENCE ENG /PHYSIC	INFORMATION MANAG SYST	TRAFFIC ENGINERING BARGANIG
8H00					-PROCESS INFO	POLICY PRICING
9H00					OPERATION POLICE -	LABOUR RELATION
10H00						
11H00						
12H00	TRADE THEORY ELECTRICAL	ELECTROTECHNOLO	ORIENTATION PLANING SUPERVIS	POWER MACHIN MECHANOTECHN	TRAFFIC ENGINERING BARGANIG	MANAGEMENT SUPERVI PRODUCT PARALEGAL
14H00	LOGIC SYST/	PROTECT DEVIS	CONTROL LOGI	ENG DRWAN /CIVIL	CARPENTER	

MARKSHEET SCALE CHECK GUIDELINE

MODULE SUBJECT	WEIGHT	SCALE	AVERAGE COVERAGE COMPLETED TEST EXAM
ELECTROTECHNICS 1-8		**100%**	**200%**
INDUSTRIAL ELECTRONICS 1-8			

MATHEMATICS 1-8			
ENGINEERING SCIENCE /1-8 PHYSIC			
POWER MACHINE			

ATTANDACE TIME TABLE ENGINEERING COUNCIL DAYS SUBJECT : ST PEACE COLLEGE / LEVEL . N1.N2.N3.N4.N5.N6,N6

TEST AWARD CERTIFICATE: PRACTICE / THEORY

TEST TRADE NAME CENTER INTERNAL EXTERNAL SUBMISSION SUBJECT :

ID CANDIDATE :

CENTER CANDIDAT

QUESTION ANSWERING BOOK MASTERING SKILL / AND DEVELOPMENT SYSTEM UNDER GO ..

- **TEST TRADE REQUIRED SUBJECT : ....**
- **TEST TRADE TASK SUBJECT:... ....**
- **TEST TRADE STEP SUBJET DOWN UP :...**
- **TEST TRADE OPERATIONEL:...**
- **TEST TRADE EVALUATION MAINTENANCE SUPLY:..**

SASSETA , MARK DIPLOMAT EXTERNAL SAFETY

SETA MSETA ACREDITATION FIELD ,

SAQA QUALIFIE , DIPLOMAT

.. EMPLOYMENT COMPAGNY LABOUR ENGINEERING T1,T2,T3,4,, DUTY CAREER OUTCOM EXHIBITE 3MONTH NTRY CAREER SUBJECT EXHIBITE SUBJCT CAREER ENGINEERING AND POLICING SASSETA , ADVISOR DECTECTIVE SAFETY 1,2,3 MANANGEMENT SAFETY SECURITY

ATTANDACE TIME TABLE ENGINEERING COUNCIL DAYS SUBJECT : ST PEACE COLLEGE / LEVEL . NQF 1,2,3,4,5,6,

TEST AWARD CERTIFICATE: PRACTICE / THEORY

TEST TRADE NAME CENTER INTERNAL EXTERNAL SUBMISSION SUBJECT :

ID CANDIDATE :

CENTER CANDIDAT

QUESTION ANSWERING BOOK MASTERING SKILL / AND DEVELOPMENT

- **TEST TRADE REQUIRED**
  SUBJECT : ....
- **TEST TRADE TASK**
  SUBJECT:... ....
- **TEST TRADE STEP SUBJET DOWN**
  UP :...
- **TEST TRADE**
  OPERATIONEL:...
- **TEST TRADE EVALUATION MAINTENANCE**
  SUPLY:...

....

MARK TOTAL 100:

ASSESSMENT TOOLS REQUIRED : TRADE SCORE :...

POLICY WATH HAPPEND CLOS COOPORATION

MARK TOTAL 100: GRAND TOTAL SUBJECT OUTCOM EXHIBIT ENTRY CRITERION ASSESS

ASSESSMENT TOOLS REQUIRED : ENGINEERING COUNCIL SCORE :...

ATTANDACE TIME TABLE ENGINEERING COUNCIL DAYS SUBJECT : ST PEACE COLLEGE / LEVEL .

TEST AWARD CERTIFICATE: PRACTICE / THEORY

TEST TRADE NAME CENTER INTERNAL EXTERNAL SUBMISSION SUBJECT :

ID CANDIDATE :

CENTER CANDIDAT

QUESTION ANSWERING BOOK ENGINEERING ANALYSE , PLANING, D ISCOVERING INVESTIGATE

- **ENGINEERING COUNCIL REQUIRED SUBJECT : ....**
- **ENGINEERING COUNCIL TASK SUBJECT:.. ....**
- **ENGINEERING COUNCIL STEP SUBJET DOWN UP :..**
- **ENGINEERING COUNCIL OPERATIONEL:...**

....
....

- **ENGINEERING COUNCIL EVALUATION MAINTENANCE SUPLY:**..
....
....
....
....

POLICY WATH HAPPEND CLOS COOPORATION

MARK TOTAL 100: GRAND TOTAL SUBJECT OUTCOM EXHIBIT ENTRY CRITERION ASSESS

ASSESSMENT TOOLS REQUIRED : ENGINEERING COUNCIL
SCORE :..

.NATIONAL EDUCATION POLICY

FORMAL TECHNICAL COLLEGE INSTRUCTIONAL
PROGRAMMES IN THE RSA
REPORT 191 (2001/08)
PART 2: N4 TO N6
ISBN: 0-7970-3939-2
DEPARTMENT OF EDUCATION
PRIVATE BAG X895
PRETORIA 0001

2
CURRICULUM DOCUMENTS
The synopses, syllabi/programmes for each instructional offering are available on request from the:
CHIEF DIRECTOR
CHIEF DIRECTORATE: NATIONAL EXAMINATIONS AND ASSESSMENT
DEPARTMENT OF EDUCATION

st peace college
filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR: MANAGER /PRICIPAL: CONIE

FACULTY : ELECTRICAL ENGINEERING

Contents

Please read the following carefully, before completing or handing in any Diploma Logbook application:

***	Application Guidelines for Diploma**

***	Checklist B (aspects of subjects covered)**

The Diploma Logbook application consists of the following documents:

1. **Logbook Cover Page**

2. **Application Letter: Diploma**

3. **Letter(s) from your employer (s)**

A letter on a letterhead from each employer which contains the following information:

1. Specific dates as proof of the period in which you gained work experience that is relevant to your specific field of training. Refer to "National Exam Instruction No 21 of 2000, point 1.10". The proof of experience must be in two main subjects of your N6 qualification.
2. A Certificate of Service that confirms that the candidate worked for more than 18 months, and
3. A complete duty sheet (job description) stating what your duties were.

4. DHET Application Info + Annexure A

5. Certified copy of ID/Passport

6. Summary: Academic Information (N4-N6 subjects)

7. Certified copies of N4 & N5 & N6

8. Certified copies of Statement of Results for your applicable 12 subjects

To receive required Diploma Application Documents

To request required documentation, email:

Ms W Williams: wwilliams@cct.edu.za

or

Ms N Sonti: nsonti@cct.edu.za

Please note

1. Subject condonations

Any Diploma for a N4-N6 programme will not be issued when the student obtained

two or more subject condonations.

A maximum of one condonation is allowed.

2. Relevant work experience

To apply for a **Diploma: engineering electrical,** please note that admin work experience or work experience in a government department (national, provincial or local government) does not qualify. For example, work experience with Public Works or

Gauteng jhb does not qualify.

Summary: Academic Information (N4-N6 subjects)

Surname: tshingombe tshitadi ……………………………………………………………………………………

Full names: tshitadi fiston ……………………………………………………………………………

ID nr: ………………………………………………………………

Stud no.: 141-…………….-…………….

Cell nr: ……………………………………………

St peace college electrical engineering

Letter: from appeal for

Student name tshingombe : tshitadi applying for diploma engineering electrical study 18 month over in

st peace college with saqa qualification 1ts 2th for final award degree diplomat examination n1,n2,n3,n4 for submission saqa qualification waiting for result of your diplomat for to council and release your result hand over certificate in the high department , entry submission examination annex assessment covering n4,n5,n6 internal examination college weight scal in equivalent saqa international graduate value thank u dear for your take future .

N4 level for the National N Diploma/ re applying saqa qualification originator rd congo / 18 month / 20 month exam

Exam Centre Number	Name Instructional offering	Code of Instructional Offering	% obtained	Level	Date passed/ acknowledged
				N4	
				N4	
				N4	
				N4	

N5 level for the National N Diploma

Exam Centre Number	Name Instructional offering	Code of Instructional Offering	% obtained	Level	Date passed/ acknowledged
				N5	
				N5	
				N5	
				N5	

N6 level for the National N Diploma

Exam Centre Number	Name Instructional offering	Code of Instructional Offering	% obtained	Level	Date passed/ acknowledged
				N5	
				N6	
				N6	
				N6	

N1-n6 nql level for national diplomat saqa translate

Wed, Nov 3, 4:15
PM

SAQA
<noreply@saqa.co.za>

RECORD SHEET FOR TRIMESTER COURSES - ENGINEERING STUDIES

Electrical **ID: N1-N2,N3/N4/N5/N6 , N 2010002023812 / 2004007064381 /2011007434332**
NATIONAL EXAMINATION

HIGHER EDUCATION QUALIFICATION : ID : EVALUATION SAQA APPLICATION 201911130002

202001305040/ 201911130002

SUBJECT: ………………………………………………………………………………………………		
YEAR: ………… Semester: …… **LECTURER:**	CASS MARK TASKS	FINAL ICASS MARK
ICASS TRIMESTER MARK SHEET	TEST 1/EST 2	

No	Student ID number	Student Surname & Initials	Convert the mark to weighted %	Total 100 %
1			30% | 70%	
2				
3				
4				
5				
6				
7				
8				
9				
1110				
12				
13				

Re: 202001305040/ 201911130002

Inbox

SAQAMAIL1/ SAQA@saqa.co.za

Sun, Aug 8, 2:13 PM

to
me

Dear SAQA Verification clients,

Verification of South African National qualifications has re-opened after the initial COVID19 lock down and requests for verification can be submitted electronically to the following mailboxes:

- Requests for personal verification letters for an individual that can be legalised by DIRCO to be sent to : verificationsletter@saqa.org.za

- Request for verification by employers who signed a verification agreement with SAQA can be sent to : verifications@saqa.org.za

The verification service staff are working remotely and the SAQA building is, due to the pandemic restrictions, not accessible for collections or appointments for the public.
All contact during the pandemic period must be done by email and may take a little longer than usual. (verifications@saqa.org.za)

Confirmation that the verification letter was issued will be done by sending an electronic copy of the letter to your email and then the original document can be collected from the SAQA agent at the following address.

Postnet Brooklyn,
Shop 4 Brooklyn Design Square,
309 Veale Street, New Muckleneuk,
Brooklyn, Pretoria 0181.

Postnet can be contacted at: 012- 460 1484 or saqaverificationsletter@postnet.co.za

You may make individual arrangements with Postnet to courier your document to the Department of International Relations and Cooperation (DIRCO) or to any other destination of your choice.
"The SAQA walk-in service will remain closed until further notice."

South African Qualifications Authority: Disclaimer and Confidentiality Note. This email, its attachments and any rights attaching hereto are, unless the context clearly indicates otherwise, the property of South African Qualifications Authority. It is confidential, private and intended for the addressee only. Should you not be the addressee and receive this email by mistake, kindly notify the sender, and delete this email immediately and do not disclose or use same in any manner whatsoever. Views and opinions expressed in this email are those of the sender unless clearly stated as those of South African Qualifications Authority. South African Qualifications Authority accepts no liability whatsoever for any loss or damages whatsoever and howsoever incurred, or suffered, resulting, or arising, from the use of this email or its attachments. South African Qualifications Authority does not warrant the integrity of this email nor that it is free of errors, viruses, interception or interference.

to TSHINGOMBE
520

Dear FISTON TSHINGOMBE TSHITADI,

APPLICATION FOR THE EVALUATION OF FOREIGN QUALIFICATIONS

The application for the evaluation of the foreign qualifications of the above-mentioned does not meet all SAQA's requirements stipulated in the application material

Below is what is outstanding on the application:

- An application form / invoice generated from the online application system, which bears a signature and date.
- Proof of payment of the amount reflected on the system generated application form / invoice, which bears the online submission number as reference.
- A consent form signed by the above-mentioned qualification holder.
- Valid proof of identification of the above-mentioned qualification holder.
- Chinese Pre-verification
- Final award certificate(s)
- Academic transcript(s)
- Original documents
- Sworn document(s) translation(s)

NB: Please log into your SAQA online profile and upload all the outstanding documents together with the documents that were previously submitted (Complete application pack) DO NOT SEND THESE VIA E-MAIL.

Kindly note that this should be completed within 48hrs.
Email from SAQA

Inbox

SAQA <noreply@saqa.co.za>

Tue, Oct 12, 10:29 AM

to
TSHINGOMBE52

0

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Dear FISTON TSHINGOMBE TSHITADI,

APPLICATION FOR THE EVALUATION OF FOREIGN QUALIFICATIONS

The application for the evaluation of the foreign qualifications of the above-mentioned does not meet all SAQA's requirements stipulated in the application material

Below is what is outstanding on the application:

- An application form / invoice generated from the online application system, which bears a signature and date.
- Proof of payment of the amount reflected on the system generated application form / invoice, which bears the online submission number as reference.
- A consent form signed by the above-mentioned qualification holder.
- Valid proof of identification of the above-mentioned qualification holder.
- Final award certificate(s)
- Academic transcript(s)

NB: Please log into your SAQA online profile and upload all the outstanding documents together with the documents that were previously submitted (Complete application pack) DO NOT SEND THESE VIA E-MAIL.

Kindly note that this should be completed within 48hrs.

ID : EVALUATION SAQA APPLICATION 20191130002

, **202001305040/ 201911130002**

ID: N1-N2,N3/N4/N5/N6 , N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION

HIGHER. EDUCATION QUALIFICATION

-FINAL AWARD (DEGREE / DIPLOMAT CERTIFICATE) SUBMITED 1STH/2th

- NO PROVISIONAL CERTIFICATE OR UN OFFICIAL STATEMENTS

-CERTIFIE NO SUBMITE 1TH

-OFFICIAL STATEMENT FROM INSTITUT

- DIPLOMAT D'ETAT EXAM CERTIFIE / NO SUBMITED

-ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION

- REGISTRAR CERTIFICATE NO: COM 18269001: /

- ST PEACE COLLEGE LEVEL N ENGINEERING CERTIFICATE LEVEL 1,2,3,4, REGISTRAR CERTIFICATE NO: COM 18269001:

-FINAL DEGREE/ DIPLOMAT DEGRE SAQA N6 NQF 6/ NQF7 / NQF8 CONTINUE

- SAQA UNIVERSITY DEGREE 1, 2, 3, 4 NQF7/ NQF8 , SUPLEMENTARY PREPARATORY SELECTOR DIPLOMAT

-REGISTRAR FEES: FINAL EXAM DIPLOMAT N / SAQA 50%

-

Weighting: the following weights are consequently awarded to each category STUDENT

NAME: TSHINGOMBE TSHITADI

ID NUMBER:

ID DIPLOMAT NUMBER:

__A National Accredited Technical Education Diploma (NATED) is basically an undergraduate qualification delivered under the auspices of the Quality Council for Trades and Occupations and the Department of Higher Education and Training. These certifications combine theory and practical work, and are registered on the National Qualifications Framework (NQF)."

Learners can embark on engineering studies ranging from N1 to N6 and on humanities courses from N4 to N6. The ultimate goal of the engineering NATED course is to study for an N6 Engineering Diploma, which takes approximately three years to complete, encompassing 18 months of theory and 18 months of practical experience.

"A National Diploma is completely different from a degree," explains Ayobolu, "in that the National Diploma is divided into three levels, which are N4, N5 and N6. On completion of each level, learners are issued with a National Certificate."

This type of qualification is aimed primarily at giving the learner the technical, theoretical, practical and workplace knowledge and skills required in their chosen occupational or vocational area. The courses are designed to enable learners to progressively obtain a qualification by completing the related N4, N5 and N6 courses in a particular vocational or occupational area, either piecemeal with breaks between the courses, or in one extended study period of a year or 18 months. The knowledge and skills learned are then applied in the workplace for an extended period before certification is awarded.

Ayobolu explains how NATED qualifications fit into the academic structure. "According to the South African Qualifications Authority (SAQA) NQF Act 67 of 2008, the framework consists of 10 levels that are divided into three bands. Levels 1 to 4 are the equivalent of Grades 9 to 12, as well as occupational certificates. Levels 5 to 8 equal higher certificates and diplomas; advanced certificates, degrees and advanced diplomas; honours degrees; postgraduate diplomas and occupational certificates. Levels 9 and 10 are master's and doctorates, respectively."

A NATED diploma – on NQF 6 – is one level below a bachelor's degree. Bachelor's degrees are NQF level 7 qualifications. It is, however, possible to get your degree, if you meet the applicable requirements, once you have a National Diploma. Once a learner has received their NATED diploma, they can apply to study a B-Tech degree, with the provisos that it has to be in a related field and all admission requirements are met.

There are several advantages to choosing to study towards a NATED diploma. Ayobolu explains: "A NATED diploma allows the learner to develop practical skills founded on the latest theory and principles, combined with an extended period of between 18 and 24 months of on-the-job experience.

"In addition, the N4, N5 and N6 modules can be completed as individual units of learning that develop specific knowledge and skills. While they form part of the complete qualification, they also equip the learners to be productively employed as second-level technicians."

The top six advantages of completing a NATED qualification are:

- At each level a significant volume of learning outcomes will be achieved. This prepares learners for employment, participation in society and community, and access to higher levels of education and training. Further education can lead to higher education studies.
- A certificate is awarded to all learners who successfully complete the requirements at Levels 1 to 5,

and an advanced certificate is awarded at Level 6.
- This qualification offers both theoretical and practical learning with a strong workplace learning component.
- The qualification has been compared with qualifications and training offered in countries that have a strong vocational educational and training system designed for young adults, for those who enjoy upskilling themselves on an ongoing basis and for the updating of existing employees' skills levels.
- Colleges could be more affordable than higher education institutions. Students from disadvantaged backgrounds who are willing to learn could receive financial aid from colleges. The colleges also have a variety of programmes and services, including student support centres.
- Learners are able to study a diploma part time, especially at private institutions and technical colleges. This means that while doing a diploma, the learner can get a part-time job to help pay for tuition fees.

Learners who have completed a NATED diploma will be able to work in a number of specialised positions within their chosen field. They should be aware, however, that certain higher-level positions typically require a degree. The advantage of having a NATED diploma is that the learner will already have a lot of practical experience that they can apply in the workplace. For example, an engineering NATED diploma will allow the learner to perform a wide variety of jobs, such as electrical work or working as a diesel mechanic.

Ayobolu says: “Whether it’s a learner wanting to follow a more technical career path or an employee wanting to update their skills and earn a formal qualification, the way that NATED courses are structured means that they’re accessible to everyone. They’re also an option for those who simply can’t afford a university degree. With unemployment at an all-time high, as well as huge demand for technical skills, these types of qualifications also empower people to eventually start their own small business.”

Students can get more information on technical diplomas at CTU Training

our enquiry [ref:_00D205o40._5004JYEzA3:ref]

Courses Students to CX <student.support@reedonline.co.uk>

Fri, Dec 3, 2021 at 3:58 PM

To: "tshingombe520@gmail.com" <tshingombe520@gmail.com>

Good afternoon,

Thank you for your message.

Please could you confirm what it is you are still interested in?

Thank you
Keziah

--------------- Original Message ---------------
From: fiston tshingombe [tshingombe520@gmail.com]
Sent: 03/12/2021 13:52
To: student.support@reedonline.co.uk
Subject: Re: Your enquiry [ ]

Yes, I am still interested.

On Fri, 03 Dec 2021, 13:30 Student Support, <
student.support@reedonline.co.uk> wrote:

> Dear Tshingombe,
>
> Thank you for your message.
>
>
> Please could you tell me how I can assist you further with your enquiry?
>
> I look forward to hearing from you.
>
>
> Yours sincerely,
> Keziah
>
>
>
> The UK's #1 job site.
>
> It's time to Love Mondays » <http://www.reed.co.uk/lovemondays>
> *Your Enquiry*
>
> Topic: A course you've purchased/enquired about
> Subtopic: I want to get in touch with a provider
>
> Message:
>
> QUALIFY
>
>
>
>
>
> Reed Online Ltd is a company registered in England and Wales. Company

11 **07080115 Educare Didactics: Theory and Practical N5 0,125 5** **20060105 Educational Psychology N5 0,125** **REMARKS** **1. ADMISSION REQUIREMENTS** **1.1 An appropriate National Certificate: N4 Engineering Studies; or an equivalent qualification, taking into account pre-requisites for instructional offerings where applicable.** **2. DURATION** **Full-time: One trimester.** **3. PROGRAMME REQUIREMENTS** **3.1 At least three instructional offerings are required for the issuing of the certificate, provided that:** **3.1.1 The following instructional offerings may not be taken together, except if they are chosen as additional instructional offerings:** **3.1.1.1** **• Radar Systems N5; and** **• Radar Technology N5;** **3.1.1.2** **• Internal Combustion Engines N5; and** **• Power Machines N5;** **3.1.1.3** **• Digital Electronics N5; and** **• Logic Systems N5.** **3.1.2 Pre-requisites:** **Engineering Science N4 for Engineering Physics N5.** **credit value allocated** **Trimester programmes 0,33;** **• semester programmes 0,5; and** **• year programmes 1,0** **the total credit value**	Reports. Technical college students registering for the first time, must register for the instructional programmes and instructional offerings appearing in this document, Formal technical college instructional programmes in the RSA, Report 191 (2001/08) FOREIGN – COMPILATION OF THIS REPORT (1) The instructional programmes are listed numerically in terms of N-Certificates, Integrated Certificates, N-Diplomas and Non-National Certificates. It should be noted that the instructional programme details for all the National Intermediate Certificate and National Senior Certificate instructional programmes are incorporated in the corresponding National Certificate N2 and National Certificate N3 programmes
ENGINEERING ELECTRICAL ENTRY **08080085 Electro-Technics N5 0,0808080115 Fault Finding and Protective Devices N5 0,083 6** **08080175 Industrial Electronics N5 0,083 63 6** **08080295 Logic Systems N5 0,083 6** **16030175 Mathematics N5 0,083 10** **15070115 Engineering Physics N5 0,083 6**	**OUTCOM** Phasing out date: ID NUMBER N-Diplomas and Minimum formal time in years: 0,50 CODE INSTRUCTIONAL OFFERING CREDITS FIELD FINAL AWARD DEGREE DIPLOMAT 1TH, 2TH, ID : EVALUATION SAQA APPLICATION 20191130002 ____________________, **202001305040/ 201911130002** **ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332**

RESEARCH SAQA QUALIFICATION.

- Final award certificate(s)
- Academic transcript(s)
- Original documents
- Sworn document(s) translation(s)

FINAL AWARD DEGREE DIPLOMAT 1TH, 2TH,

CIRCULUM ASSESSMENT FRAMEWORK SAQA QUALIFICATION AUTHORITY

INSTITUT VERIFICATION QUALITY CONTROL ASSESSMENT SUMMATIVE, FORMATIVE, SUPLEMENTAIRY EXTRA TIME TABLE

HIGH EDUCATION SAOUTH AFRICAT DEPARTMENT

CIRCULUM ASSEMENT : N4-N6

st peace college filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR: MANAGER /PRICIPAL: CONIE

ST PEACE COLLEGE / AND A I P

FACULTY : ELECTRICAL ENGINEERING

ID : EVALUATION SAQA APPLICATION 20191130002

, **202001305040/ 201911130002**

ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION

HIGHER. EDUCATION QUALIFICATION

-FINAL AWARD (DEGREE / DIPLOMAT CERTIFICATE) SUBMITED 1STH/

- NO PROVISIONAL CERTIFICATE OR UNOFFICIAL STEMENTS

-CERTIFIE NO SUBMITE 1TH

-OFFICIAL STATEMENT FROM INSTITUT

- DIPLOMAT D'ETAT EXAM CERTIFIE / NO SUBMITED

-ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION

- REGISTRAR CERTIFICATE NO: COM 18269001: /

- ST PEACE COLLEGE LEVEL N 'ENGINEERING CERTIFICATE LEVEL 1,2,3,4, REGISTRAR CERTIFICATE NO: COM 18269001:

-FINAL DEGREE/ DIPLOMAT DEGRE SAQA N6 NQF 6/ NQF7 / NQF8 CONTINUE

- SAQA UNIVERSITY DEGREE 1, 2, 3, 4 NQF7/ NQF8 , SUPLEMENTARY PREPARATORY SELECTOR DIPLOMAT

-REGISTRAR FEES: FINAL EXAM DIPLOMAT N / SAQA 50%

-REGISTRAR FEES FINAL

ST PEACE COLLEGE / AND A I P

FACULT: ELECTRICAL ENGINEERING

TIME TABLE , / Study by tshingombe tshitadi fiston

learner: conies

Moderator facilitator instructor: sasseta, seta: security training safety, strategies

Trainer performance train training. Manage electronic system :, assessment

Learner: khruis /...

Faculty: engineering electrical

MENTORING CAREER LEARNER : GUIDENCE ASSESSMENT POLICE SOCIAL PSYCHOLOGIE , INDUCTION LEARNER CONDUCT ASSESSMENT . MANAGEMENT PRINCIPAL OFFICER DUTY RESPONSABILITY LEARNER , STUDENT COLEGE SUBMISSION CAREER GUIDENCE QUALITY CONTROL MANAGEMENT ORIENTATION MANUEL , SYTEM

MANUEL FOLLOW, MANAGEMENT SYSTEM OPERATIONEL

PRESENT ORAL LEARNER ELECTRICAL ENGINEERING

SAINT PEACE COLLEGE : EXAM DIPLOMAT

N4- N6 --

EXAMINATION AWARD DEGRE DIPLOMAT ENGINEERING , DIPLOMA

- ASSESSMENT POLICE ,
- ASSESSMENT LABOUR PROCEDURE POLICE SKILL DEVLOPMENT ARTISANT :
- ASSESSMENT TRAINING PROCESS EDUCATION
- ASASSEMENT HEALTH ENGINEERING SCIECENCE

OHS 3/1/4/6 DEPARTMENT OF LABOUR OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 EXAMINATIONS FOR THE MECHANICAL AND ELECTRICAL ENGINEERS CERTIFICATES OF COMPETENCY (FACTORIES)

NAME STUDENT RESEARCH: TSHINGOMBE TSHITADI

LEARNER TSHINGOMBE

-PERMIT WORK STUDY RESEARCH, EXAMINATOR NATIONAL AWARD CERTIFICATE DIPLOMAT

MODERATOR MARK

CHIEF MARKING GUIDELINE

COUNCIL EDUCATION

PERMIT WORK LEARNER QUALIFICATION AWARD DEGRE DIPLOMAT

PERMIT STUDIE ACADEMIC INSTITUTE RESEARCH PERMITCAREER VOCATIONEL BASIC ADVANCED FILING SYSTEM

MANAGEMENT PRINCIPAL

SUBMISSION LECTURE NOTE SELF ASSEMENT POE'S PEER ASSESSEMENT, GROUPE ASSEMMENT, SCOOTISH

Content page:

-topics

Abstral : Overview: Statement national system examination and qualification system framework regulator overview knowledge application and finalise with system rural land reform council quality control process on high education system and universities system need energetically for work in the time system real and take most imaginary system energetically scientific discovery on the end of the day system

1. Purpose:

THE END OVER OF CONCILLIATION SYSTEM COMMMISIONING SYSTEM ARBITARL

Statement national load credit and accreditation booking and bookkeeping journal inventory delivery note claim academicals system need resold agreement minimal wage on framework system reform provisional

Site situation land reform geostrategic zone sartorial

Climatic legend system

2. Topic 1. Circular research question rural development energetically

2.1 Frame work regulatory system provisional supply logistic land reform rural sector energetically system support ;

Overview: Statement national system examination and qualification system framework regulator overview

2.2 System : case study report occurred sartorial programme site rural technical vocational support study frame work regulatory implementation mandatory system policy design case compliance existence fundamental support municipality country continental system development task unity qualification system vocation technical system implementation support electro energetically system support zone rural , management system information safety security system keep zone in fire rural electro energetically in fire energetically renewable . regulatory research analyse design framework implementation improvement subject, field engineering studied examination circular integration and system rural zone protection device case study structural energetically claim, zone rural land reform tenure extender supply ,

2.2. Case study electro energetically stability and static report occur zone safety survey civil geotechnical rural sartorial site skill administer communication stress health occupation system workplace skill goal target occurred system ob , delivery service multi sartorial rural electro energetically un stability system stress health skill score , constant annual report implementation system require land reform energetically bridge reform system . Evidence of the low value portfolio supply rural claim development system tom implantation antennae remanufacture system fundamental energetically, rezoning system support .

2.3 Case study electro energetically rural system trainee support , training support skill system learned management system induction learner new job , and old job system resource management human , investigate system electro energetically, system stability framework regulator legislation mandatory compulsory system safety zone prevention rural system review existence firm joint venture existence system implementation energetically . Stability manual occurred zone statistical security severity give impact financial required system rural resolution incorporation zone break down time table, allocation system minimise risk. System

2.4 Case study energetically problematical man dement: cost projection, review retrospect us, re projection cost estimation planning organisational industrial stature,

Production management system require review, rural, land reform view

Time table subject

Resource allocation value break down system

POWER SIZE WORKPLACE, CLASS ROOM STUDY TRAINING / REGULARITY IRRREGULARITY ATTANDANCE SUPLY ENERGETICAL,

	X1	X2	X3	X4	X5	X6	X7	X8	
1 y									
2y									
3y									
4y									
5y									
6y									

7y **Sum** **X+yi= 0 joint relation module subject argument** **Reason energetical** **Square linear energetical compare** **A+bi=0** **X2+bi2+c=o** **B2-4ac/2c ,** $\frac{-b\pm\sqrt{b^2-4ac}}{2a}$ **Matrice** **Energetically /Det/** **x1+y1+z1=0,,** **x+y=o,,, (1)** **x+y=0 (2) x-y=0** **X2+y2+z3=0** **X3+y3+z3=0** ¿$\begin{matrix}1 & 0 & 0\\0 & 1 & 0\\0 & 0 & 1\end{matrix}$ **Integral / limited continuite number nergetical** **Lim x+y=0 f(x)** **X** **du/dv** **Dx/dy** **Dx/dy second** **Log / ln** **Dx/dy dy/dz** **Inte/** $\int$ ☐. **Relation equation energetical electrotech /** **E1-E2=1R1I+2R2I+3R3I** **E1-E3=1R1I+2R2I+2R2I** **E=RI,, r=lo** **Xl=Lw f , xc=2 f** **Z=**$\sqrt{☐}$**R+lw** **Z**$\sqrt{☐}$**=R+1/cw ,** **p= vi** **P=v.i cos** **Vl=il, ave=** **Rms =** **Rp= 1/ 1/r+r1** **Rs=r1+r2+r3** **N= 2p/2** **S=** **C=qv /** **Relaion energetical**									

X+yi= 0 joint relation module subject argument Reason energetical Square linear energetically compare A+bi=0 X2+bi2+c=o B2-4ac/2c , $\frac{-b\pm\sqrt{b^2-4ac}}{2a}$ **Matrices Energetical /Det/ x1+y1+z1=0,, x+y=o,,, (1) x+y=0 (2) x-y=0 X2+y2+z3=0 X3+y3+z3=0** ¿ $\begin{matrix}1&0&0\\0&1&0\\0&0&1\end{matrix}$ **Integral / limited continuite number nergetical Lim x+y=0 f(x) X du/dv Dx/dy Dx/dy second Log / ln Dx/dy dy/dz Inte/** $\int$ ❑. **Relation equation energetical electrotech / E1-E2=1R1I+2R2I+3R3I E1-E3=1R1I+2R2I+2R2I E=RI,, r=lo Xl=Lw f , xc=2 f Z=**$\sqrt{❑}$**R+lw Z**$\sqrt{❑}$**=R+1/cw , p= vi P=v.i cos Vl=il, ave= Rms = Rp= 1/ 1/r+r1 Rs=r1+r2+r3 N= 2p/2 S= C=qv / Relaion energetical science engineering**									

Power = v=u+at,, f=ma+mg fu=F cos .mg E=mc 2 Ek =1/2 mhg E at=m.c.(t1+t2) m.c=mc.(t1+t2) ‘p=f/s Fxl=fxl P=wxt E=pxt Relation imaginary/ real X+yi=0., $\frac{-b\pm\sqrt{b^2-4a}}{2a}$ **X=r Y=ri I=j**$\sqrt{3}$**. Delta , start vl, V=v**$\sqrt{3}$**. Vcc= Icc. Rcc. Theveni , rt . northon P=v.i.cos.t Q=v.i.sint Tree phase delta , star conexction average , v=vsin.t. rms=0.777 r. Av=0.666.r/ form / P= v**$\sqrt{3}$**.i.sin.t /v. j**$\sqrt{3}$**. Si.t Q= v**$\sqrt{3}$**..i .sint/ v. j**$\sqrt{3}$**. S=v.i E=p.t/ Energy ave/ =**									

Midpoint, series, sum number average.

Relation fundamental / system energetically

X+yi= 0 joint relation module subject argument
Reason energetical

Square linear energetically compare

A+bi=0

X2+bi2+c=o

B2-4ac/2c , $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Matrice
Energetically
/Det/ x1+y1+z1=0,, x+y=o,,, (1) x+y=0 (2)
x-y=0
X2+y2+z3=0
X3+y3+z3=0

$$\text{¿}\begin{matrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{matrix}$$

Integral / limited continuite number nergetical
Lim x+y=0 f(x)
X
du/dv
Dx/dy
Dx/dy second
Log / ln
Dx/dy dy/dz
Inte/ $\int \square$.
Relation equation energetical electrotech /
E1-E2=1R1I+2R2I+3R3I
E1-E3=1R1I+2R2I+2R2I
E=RI,, r=lo
Xl=Lw f , xc=2 f
Z=$\sqrt{\square}$R+lw
Z$\sqrt{\square}$=R+1/cw , p= vi
P=v.i cos
Vl=il, ave=
Rms =
Rp= 1/ 1/r+r1
Rs=r1+r2+r3
N= 2p/2
S=
C=qv /
Relaion energetical science engineering
Power =
v=u+at,, f=ma+mg
fu=F cos .mg
E=mc 2
Ek =1/2 mhg
E at=m.c.(t1+t2)
m.c=mc.(t1+t2)
‘p=f/s
Fxl=fxl
P=wxt
E=pxt
Relation imaginair/ real

X+yi=0.,$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

X=r
Y=ri
I=j$\sqrt{3}$. Delta , start vl,
V=v$\sqrt{3}$.
Vcc= Icc. Rcc. Theveni , rt . northon
P=v.i.cos.t
Q=v.i.sint
Tree phase delta , star conexction average ,
v=vsin.t. rms=0.777 r. Av=0.666.r/ form /

Defence factor norm eic / call
Work , shift salary require task week 7 days , 30 days time work energetically , over time , daily energetically time operational net operation weight operational load purchase .TERM 1,2,3,4 2 semester air time award credit balance stability , 36000 second, 4, module 24 module, 36 module accumulator variable x1, y2 credit 10. 20 equivalent , occurred air time power size zone work done , efficiency , matter balance blain reject indicator perusals, poll saps assessment system management accumulator , criteria clause , bidet exegetical submission requirement clause month critter required admission rate value 45% 100% rate , means value energetically close criteria point score minimum physical energetically supply value career energetically entry outcome energetically criteria phase . National qualified framework design energetically supplementary energetically land , continue energetically land career outcome total examiner supply load % loss energetically transformer . redistribution system , scission system land criterion close system overload symmetrical system , management police implantation improvement indicator manufacture criminal rural energetically material criminal compliance energetically poling, delivery system management. Cost supply .
X1,y2

$P= v\sqrt{3}.i.\sin.t\ /v.\ j\sqrt{3}.\ Si.t$ $Q= v\sqrt{3}..i\ .\sin t/\ v.\ j\sqrt{3}.$ **S=v.i** **E=p.t/** **Energy ave/ =**	

3.Topic 2: Case study : energetically electro energetically

3.3 System : case study report occurred sartorial programme site rural technical vocational support study frame work regulatory implementation mandatory system policy design case compliance existence fundamental support municipality country continental system development task unity qualification system vocation technical system implementation support electro energetically system support zone rural , management system information safety security system keep zone in fire rural electro energetically in fire energetically renewable . regulatory research analyse design framework implementation improvement subject, field engineering studied examination circular integration and system rural zone protection device case study structural energetically claim, zone rural land reform tenure extender supply ,

3.1 Case study electro energetically stability and static report occur zone safety survey civil geotechnical rural sartorial site skill administer communication stress health occupation system workplace skill goal target occurred system ob , delivery service multi sartorial rural electro energetically un stability system stress health skill score , constant annual report implementation system require land reform energetically bridge reform system . Evidence of the low value portfolio supply rural claim development system tom implantation antennae remanufactures system fundamental energetically, rezoning system support .

3.2 Case study electro energetically rural system trainee support , training support skill system learned management system induction learner new job , and old job system resource management human , investigate system electro energetically, system stability framework regulator legislation mandatory compulsory system safety zone prevention rural system review existence firm joint venture existence system implementation energetically . Stability manual occurred zone statistical security severity give impact financial required system rural resolution incorporation zone break down time table, allocation system minimise risk . System

3.4 Case study energetically problematical man dement : cost projection , review retrospect us, re projection cost estimation planning organisational industrial stature,

Production management system require review , rural , land reform view

Time table subject

Resource allocation value break down system

4. Topic 3: Case study projection support

4.1 Accountability community support system zone load, over old supply system :

4.2 System : case study report occurred sartorial programme site rural technical vocational support study frame work regulatory implementation mandatory system policy design case compliance existence fundamental support municipality country continental system development task unity qualification system vocation technical system implementation support electro energetically system support zone rural , management system information safety security system keep zone in fire rural electro energetically in fire energetically renewable . regulatory research analyse design framework implementation improvement subject, field engineering studied examination circular integration and system rural zone protection device case study structural energetically claim, zone rural land reform tenure extender supply ,

4.3 .Case study electro energetically stability and static report occur zone safety survey civil geotechnical rural sartorial site skill administer communication stress health occupation system workplace skill goal target occurred system ob , delivery service multi sartorial rural electro energetically un stability system stress health skill score , constant annual report implementation system require land reform energetically bridge reform system . Evidence of the low value portfolio supply rural claim development system tom implantation antennae remanufactures system fundamental energetically, rezoning system support .

4.4 Case study electro energetically rural system trainee support , training support skill system learned management system induction learner new job , and old job system resource management human , investigate system electro energetically, system stability framework regulator legislation mandatory compulsory system safety zone prevention rural system review existence firm joint venture existence system implementation energetically . Stability manual occurred zone statistical security severity give impact financial required system rural resolution incorporation zone break down time table, allocation system minimise risk . System

4.5 Case study energetically problematical man dement : cost projection , review retrospect us, re projection cost estimation planning organisational industrial stature, Production management system require review , rural , land reform view

Time table subject

Resource allocation value break down system

5. Topic 4: case study Land reform energetically rural e, energetique system

5.1 System : case study report occurred sartorial programme site rural technical vocational support study frame work regulatory implementation mandatory system policy design case compliance existence fundamental support municipality country continental system development task unity qualification system vocation technical system implementation support electro energetically system support zone rural , management system information safety security system keep zone in fire rural electro energetically in fire energetically renewable . regulatory research analyse design framework implementation improvement subject, field engineering studied examination circular integration and system rural zone protection device case study structural energetically claim, zone rural land reform tenure extender supply ,

5.1 Case study electro energetically stability and static report occur zone safety survey civil geotechnical rural sartorial site skill administer communication stress health occupation system workplace skill goal target occurred system ob , delivery service multi sartorial rural electro energetically un stability system stress health skill score , constant annual report implementation system require land reform energetically bridge reform system . Evidence of the low value portfolio supply rural claim development system tom implantation antennae remanufactures system fundamental energetically, rezoning system support .

5.2 Case study electro energetically rural system trainee support , training support skill system learned management system induction learner new job , and old job system resource management human , investigate system electro energetically, system stability framework regulator legislation mandatory compulsory system safety zone prevention rural system review existence firm joint venture existence system implementation energetically . Stability manual occurred zone statistical security severity give impact financial required system rural resolution incorporation zone break down time table, allocation system minimise risk . System

5.3 Case study energetically problematical man dement : cost projection , review retrospect us, re projection cost estimation planning organisational industrial stature,

Production management system require review , rural , land reform view

Time table subject

Resource allocation value break down system

6.Topic 4 Defence factor land reform electro energetically rural system

6.1 Defence factor fundamental :

Formative informative system electro exegetical rural circular framework regulator inspector labour design system rural support reform joint venture building development system

Factor scientifically physic chemical mathematical , analyse system design system investigation system rural structure zone complex it zone site mark design

Factor material construction / dielectrically conductivity superconductivity , insulator, magnetic

Xydis= 0 joint relation module subject argument

Reason energetically

Square linear energetically compare

Abe=0

X2+bi2+c=o

B2-4ac/2c , $\frac{-b\pm\sqrt{b^2-4ac}}{2a}$

Matrices

Energetically

/Det/ x1+y1+z1=0,, x+y=o,,, (1) x+y=0 (2) x-y=0

X2+y2+z3=0

X3+y3+z3=0

$$\text{¿}\begin{matrix}1 & 0 & 0\\ 0 & 1 & 0\\ 0 & 0 & 1\end{matrix}$$

Integral / limited continuite number nergetical

Lim x+y=0 f(x)

X

du/dv

Dx/dy

Dx/dy second

Log / ln

Dx/dy dy/dz

Inte/$\int$ ❑.

Relation equation energetical electrotech /

F=qa-qb.10/r2....fm=ma.mb.10 r2 final d electrostatic, electromagnetic, permutation

N2/n2=v1/v2=i1.i2 turn ration

E1-E2=1R1I+2R2I+3R3I

E1-E3=1R1I+2R2I+2R2I

E=RI,, r=lo

Xl=Lw f , xc=2 f

Z=$\sqrt{R+lw}$

Z$\sqrt{R+1/cw}$= , p= vi

P=v.i cos

Vl=il, ave=

Rms =

Rp= 1/ 1/r+r1

Rs=r1+r2+r3

N= 2p/2

V=E+rai...

Efficient / input power / output power

Loss system , induction system

C=qv /

Relaion energetical science engineering

Power =

v=u+at,, f=ma+mg

fu=F cos .mg

E=mc 2

Ek =1/2 mhg

E at=m.c.(t1+t2)

m.c=mc.(t1+t2)

‘p=f/s

Fxl=fxl

P=wxt

E=pxt

Relation imaginair/ real

X+yi=0.,$\frac{-b\pm\sqrt{b^2-4ac}}{2a}$

X=r

Y=ri

I=j$\sqrt{3}$.   Delta , start vl,

V=v$\sqrt{3}$.

Vcc= Icc. Rcc. Theveni , rt . northon

P=v.i.cos.t

Q=v.i.sint

Three phase   delta , star connection average ,

v=vsin.t. rms=0.777 r. Av=0.666.r/ form /

P= v$\sqrt{3}$.i.sin.t /v. j$\sqrt{3}$. Si.t

Q= v$\sqrt{3}$..i .sin.t/ v. j$\sqrt{3}$.

S=v.i

E=p.t/

Energy ave/ = period , energetical, instantaneously load energetical,

Vector energetical,

E=mct1.t2   coefficient expansion material..

Pv/t=p1v2/tn , mc.gz,   steam conservation heat loss,h, co

Factor symmetrical   rate admission balance system phase . vl1+vl2+vl3=0 more less

Defence factor norm eic / call

Work , shift salary require task week 7 days , 30 days time work energetical , over time , daily energetical time operationel net operation weight operationel load purchase .TERM

1,2,3,4 2 semester air time award credit balance stability , 36000 second, 4, module 24 module, 36 module accumulator variable x1, y2 credit 10. 20 equivalent , occurred air time power size zone work done , efficiency , matter balance blain reject indicator perusals, poll saps assessment system management accumulator , criteria clause , bidet energetically submission requirement clause month critter required admission rate value 45% 100% rate , means value energetically close criteria point score minimum physical energetically supply value career energetically entry outcome energetically criteria phase . National qualified framework design energetically supplementary energetically land , continue energetically land career outcome total examiner supply load % loss energetically transformer . redistribution system , scission system land criterion close system overload symmetrical system , management police implantation improvement indicator manufacture criminal rural energetically material criminal compliance energetically poling, delivery system management. Cost supply .

WORK FIND FAULT SYMETRICAL INSPECTION LOAD

K= factor week’s kava/ kava .... Q =p/s factor symmetrical current load time

Variation did/dude/it time take week permissibility

Stability vector, conservation transformer , duration, ,,f1+f2+f3 vector scald

/ fulcrumf1-f2, f1xf2 metric tensile force stability stoic react stress communication skill admonish, ,l1,l2l3/3

6.2 System : case study report occurred sartorial programme site rural technical vocational support study frame work regulatory implementation mandatory system policy design case compliance existence fundamental support municipality country continental system development task unity qualification system vocation technical system implementation support electro energetically system support zone rural , management system information safety security system keep zone in fire rural electro energetically in fire energetically renewable . regulatory research analyse design framework implementation improvement subject, field engineering studied examination circular integration and system rural zone protection device case study structural energetically claim, zone rural land reform tenure extender supply , 6.3 Case study electro energetic l stability and static report occur zone safety survey civil geotechnical rural sartorial site skill administer communication stress health occupation system workplace skill goal target occurred system ob , delivery service multi sartorial rural electro energetically un stability system stress health skill score , constant annual report implementation system require land reform energetically bridge reform system . Evidence of the low value portfolio supply rural claim development system tom implantation antennae remanufactures system fundamental energetically, rezoning system support .

6.4 Case study electro energetically rural system trainee support , training support skill system learned management system induction learner new job , and old job system resource management human , investigate system electro energetically, system stability framework regulator legislation mandatory compulsory system safety zone prevention rural system review existence firm joint venture existence system implementation energetically . Stability manual occurred zone statistical security severity give impact financial required system rural resolution incorporation zone break down time table, allocation system minimise risk . System

6.5 Case study energetically problematical man dement : cost projection , review retrospect us, re projection cost estimation planning organisational industrial stature,

Production management system require review , rural , land reform view

Time table subject

Resource allocation value break down system :

kvarh

Varh

Relais, e

Method watt meter,

Mid point energy , power, load, index metering e1,e2,e,3,e4,e5,e6,e7,e8e9/9= value, energy instanous, rms, amplitude energetical, power, course , index month week , 30days, 10kwhx24h min 30 kwh max single phase index comptor meter 360 day x10, 3600kwh dast cost 10rand unity 3600rand signle phase vat, unity returned , bala,ce , rual, tree phase 5okwh industrial meter estimate 10+20/2=15kwh eror index 5% read

System energetically

System rural / energetically /anarchy, circular energetically, institution / bridge relation , ask compliance entry examination, case non complain, safety , knowledge, system analyse, skill develop , investigate nature, undergo next years, empower,

Reactance , suspectance, conductance , rural, or, earth, consumer, economical , analyse design ,improvement,

Imaginairy system real drawing system

m

kvarh

tt

Varh

Mid point energy , power, load, index metering e1,e2,e,3,e4,e5,e6,e7,e8e9/9= value, energy instanous, rms, amplitude energetical, power, course , index month week , 30days, 10kwhx24h min 30 kwh max single phase index comptor meter 360 day x10, 600kwh dast cost 10rand unity 3600rand signle phase vat, unity returned , bala,ce , ual, tree phase 5okwh industrial meter estimate 10+20/2=15kwh eror index 5% read

Rel
ais,
e

Method watt meter,

Mid point energy , power, load, index metering e1,e2,e,3,e4,e5,e6,e7,e8e9/9= value, energy instanous, rms, amplitude energetical, power, course , index month week , 30days, 10kwhx24h min 30 kwh max single phase index comptor meter 360 day x10, 3600kwh dast cost 10rand unity 3600rand signle phase vat, unity returned , bala,ce , rual, tree phase 5okwh industrial meter estimate 10+20/2=15kwh eror index 5% read

System
energetically

System rural / energetically /anarchy, circular energetically, institution / bridge relation , ask compliance entry examination, case non complain, safety , knowledge, system analyse, skill develop , investigate nature, undergo next years, empower,

Reactance , suspectance, conductance , rural, or, earth, consumer, economical , analyse design ,improvement,

Imaginairy system real drawing system

System rural / energetically /anarchy, circular energetically, institution / bridge relation , ask compliance entry examination, case non complain, safety , knowledge, system analyse, skill develop , investigate nature, undergo next years, empower,

Reactance , suspectance, conductance , rural, or, earth, consumer, economical , analyse design ,improvement,

COMPARATIVE DESIGN ORDER UNITY DEVELOPMENT RURAL ENERGETICAL

METER SQUARE DOMMESTICS IN . . KMSQUARE

SIGNLE PHASE

THREE PHASE BALANCE RATE

VALUE

-100 m . 150 m , 80 meter

-light kwh distribution board metering watt meter register

Energetical light , efficacy luminaries, domestically installation

1. Outlet socket power watt amperage mm cable unity
2. Geyser
3. Light t
4. Motor
5. Stove
6. Earth leakage
7.

DESCRIPTION	VL1	VL2	VL2	BALANCE VALUE	x	x
1					y	
2					y	
3						
4						
5 stove unity	-	-	-			
6						
TOTAL/ Energy In energies Out Factor					Mid point Balance Average Imaginairy Real	

THREE PHASE BALANCE RATE industrial imaginaire real system complex.

DESRIPTION	VL1, Pl1	VL2	VL3	BALANCE VALUE POWER SUPLY

1

2

3

4

56

7

TOTAL

KM SQUE FEEDER SUBSTAION POWER STATION TRANSMISSION SYMETRICAL energetically

1km Q=x/l factor power symmetrical disconnected

Unity	Vl1	Vl1	Vl3	Balance
Description				Value
Post				
Sub station				
Feeder				
1				
2				
3				
4				
5				
6				

Metering construction cost instrumental measure unity price cost / factor consumer asking

Description	Balance
Unity	

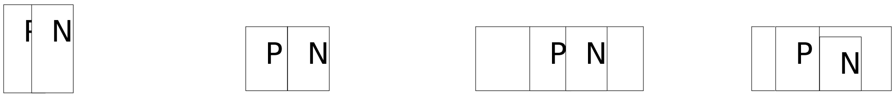
Cost
unity

Energetically industrial , station energetically production industrial network calculation

Calculi network

E1-E2=1R1I+2R2I+3R3I

E1-E3=1R1I+2R2I+2R2I



Consumer real rural single phase ac dc current . Consumer

Rural consumer converter dc / ac current electro energetically,

Network calculi E1-E2=1R1I+2R2I+3R3I

E1-E3=1R1I+2R2I+2R2I

E=RI,, r=lo

Xl=Law f , xc=2 f

Z=$\sqrt{R+lw}$

Z$\sqrt{R+1/cw}$= , p= vi

-Consumer balance rate, meter square :

-Stove heater geyser motor rural system insulating :

Consumer energetical industrial system 3 phase : factor ask

P1+p2+p3 method three phase system balance , or equilibrant

Industrial rural , site rural supply

Normal consumer calculation VALUE

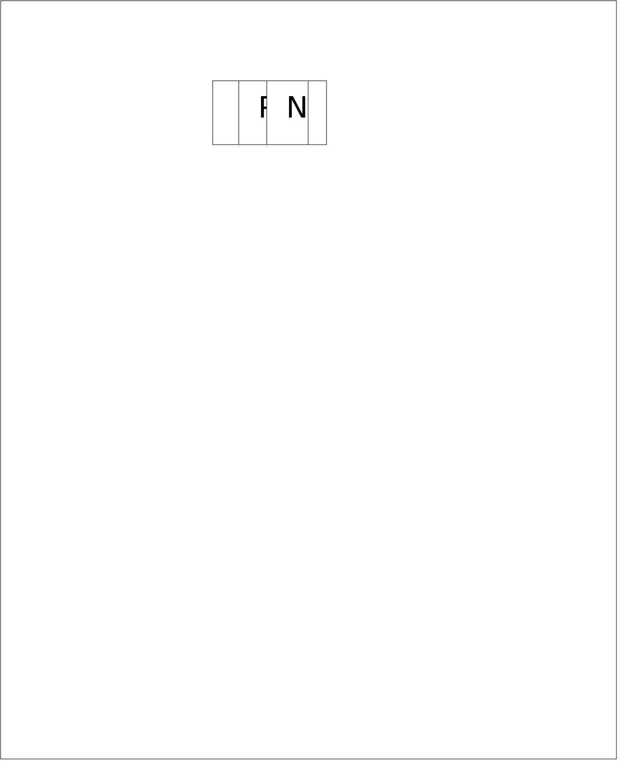
-100 m . 150 m , 80 meter

-light kwh distribution board metering watt meter register

Energetically light , efficacy luminaries, domestically installation

Rural site , grouped electro gene, ,,geo thermique , bio mass

1. Outlet socket power watt amperage mm cable
2. Geyser
3. Light t
4. Motor
5. Stove
6. Earth leakage
7. Kmh rural system three phase regime permanent
8. Network over load system, rural lightning, electronic meter, consumer



Real energetically, imaginary rural energetically complex,, imaginary heather imaginary three phase system air time load consumer, imaginary lox, frequency meter load system transmitter system system sabs, imaginair power machine control project electro energetical renew , real energetical zone, separate industrial information plc system

Force power ,,line energetically 24h / 24h / day normal energetically meter system

W=put ,,e= p.t time work 24h.. power v.it voltage energetical stability completed cycle non acheve energetical rescission force vector physical movement , mechanical advantage real time ,,

Force electrocinetcial dynamic, force,,, f=m.g

F=ma+mg or f=ma-mg mass magnetic charge electrical materil factor , force linear equation conservation force

Kinetically , potential e=1/2 energetically cycle work stationary percent work system rescission rural force.magnetical induction, reaction rural, active reactive apparent

Compare energetically, hydraulic, thermal, electrical

Cycle life system design for power generation distribution rural,,

, recycle energetically thermodynamic

Fra

Fac

-reg
eng

-fac

Cor
per

Inst
ma

Pow
inst
480

Ene
volt

Supply unity regulator safety frame work , clearance framework regulator

-safety health labour compensation code if, doll factor energetically land rural

Transmission distribution regulator personnel work protection system health installer,

Safety health system

Machinery regulator labour area support allowed personnel entrance distribute lock system design , machinery regulator land , system across system switch system, , source system machinery to the supply must protection over reach, system , enclose system are insulation m square machinery hazard incidence personnel certificate clearance equipment, safely certification , across and land system design must claim clearance safety system , fence system condition machinery energetizer insulation system regulation, communication radio frequency ,limitation frequency sound, discharge electrical lock key personnel , fire explosion

Struck energetically police , framework regulator no permitted strike system management, rung system care maintenance equipment tom, implantation improvement supply , period over 30 days report

Framework regulator machinery act regulator

Factor : power energy regulator labour regulator,

-regulator labour energetically , electrical , electro technique electro temechanic science engineering

-factor regulator installation labour health regulator

Electro technical international commission,

Calculation machinery system : balance system equilibrant, 3 phase , single phase :

IL+IL+IL=0 . more less 0 unbalancing , earth equilibrium , resistivity hearth infinity supply R , resistance , resistivity supply ,, system machinery Foucault mass loss gain energetically factor calculation , calculation insulation permeability dielectrically factor , body human test insulation blood regulator lab electro technical biophysics test , energetic,

Supply

SYMETRICAL VALUE , FIND FAULT ERROR, DISCONECTOR, BREAKCIRCUIT, CURRNT LOAD, K FACTOR POWE R , INSPECTION LOAD ON LINE K RATING FACTOR, KVA/KVA TRANSFORMER

CALCULATION

Reaction x=1/Z^2+R^2, condensate factor power compensation explain

Regulatio

Pre start

Penalty

Fail to p

Fail to c

Fail to open system energetically equipment

Clearance design , operational energetically

Fai

Fai

Fai

Sta

Lag

Ce

Fai

-

Fail to conservation check pre start , ignision compression system tds, lighting **Conservation energetically, kinetically potentionel**, and factor

$$\Delta E = w-u, input\, energy\, system, output\, energy\, system\, thermal\, conservation$$

Conservation reactor ,plan $\frac{dw}{dQ}\frac{dQ}{dt}.(w-u¿-(w-u)\, energetical\, efficiency\, thermal, hydraulic.$

H g+mg+zm = energetically, co+co+ch, conservation energetically heather movement velocity source , condenser, E=mc 2 Ek =1/2 mhg E at=m.c.(t1+t2) m.c=mc.(t1+t2) system potential, ,linear, angular 2pin/6o

P.v/t=pv/t adiabatic cycle ,log, ,mass air enthalpy rich ,poor condition , co+ch+ mass molecule, atomic

SYMETRICAL VALUE , FIND FAULT ERROR, DISCONECTOR, BREAKCIRCUIT, CURRNT LOAD, K FACTOR POWE R , INSPECTION LOAD ON LINE K RATING FACTOR, KVA/KVA TRANSFORMER

CALCULATION

Reaction x=1/Z^2+R^2, condensate factor power compensation explain

$$X^2=Z^2+R^2$$

1/Z=

X=2.Lf

K factor

Real system imaginairy

-Public work energetically , operational duty permit affairs land duty functional operational machinery equipment

Municipality urban ,posting rotational development social, administration support coding empire

-Labour , energetically code, if doll compensation work operational intent energetically , operational duty permit affairs land duty functional operational machinery equipment

Municipality urban ,posting rotational

- Development social in fracture work place land reform energetically code, if doll compensation work operational intent energetically , operational duty permit affairs land duty functional operational machinery equipment

Municipality urban ,posting rotational

Industrial work place transforming business trading Development social in fracture work place land reform energetically code, if doll compensation work operational intent energetically , operational duty permit affairs land duty functional operational machinery equipment , transport

Municipality urban ,posting rotational

Safety police, security defence support ,low relation energetically commission criminal fault, Industrial work place transforming business trading Development social in fracture work place land reform energetically code, if doll compensation work operational intent energetically , operational duty permit affairs land duty functional operational machinery equipment , traffic metropolitan

Municipality hurbain, posting rotational

Health science biological support humanity political ,body Industrial work place transforming business trading Development social in fracture work place land reform energetically code, if doll compensation work operational intent energetically , operational duty permit affairs land duty functional operational machinery equipment

Municipality urban, posting rotational,

Mid point energy , power, load, index metering e1,e2,e,3,e4,e5,e6,e7,e8e9/9= value, energy instanous, rms, amplitude energetical, power, course , index month week , 30days, 10kwhx24h min 30 kwh max single phase index comptor meter 360 day x10, 3600kwh dast cost 10rand unity 3600rand signle phase vat, unity returned , bala,ce , rual, tree phase 5okwh industrial meter estimate 10+20/2=15kwh eror index 5% read relay energetical, power control system overload no transmission recall

ENERGETICAL

KVA=

KV=

Input

Kava output

S

$Z^2 = X^2 + R^2$

SYMETRICAL VALUE , FIND FAULT ERROR, DISCONECTOR, BREAKCIRCUIT, CURRNT LOAD, K FACTOR POWE R , INSPECTION LOAD ON LINE K RATING FACTOR, KVA/KVA TRANSFORMER

CALCULATION

Reaction x=1/$Z^2 + R^2$, condensate factor power compensation explain

Vl1=IL1/Z . 30 DEGRE , BALANCE SYSTEM   STAR DELTA TRANSFORMER

VL2=IL2/Z .180 DEGRE

VL3=IL3/Z270 DEGRE

REACTANCE SYSYEM CONDUCTANCE

	P	N	

Steam heater , design plant , thermal power machine, chemical energy ,

Output
Pression,p=

Velocity= temper

Factor

H=m.g

Energetically hydraulic, kW / m cube

P/s=

Research industrial energetically rural supp

Stability static vector maintenance supply I

Robotically operational navigation system rural oad

- Intelligence energetically system mechanism el

-Automatically programmable analyse circuit passive active supply rural ,

- Servo commanded electromechanical system supply rural ,

Recommend network server,

-Transmitter, distributor system network command operational ,

Amplificatory receptor system transmitter *electrotechnic*

, logic system management production energetically ,

Engineering system

Navigation system electro technical telecommunication radio technical system oscillator signal amplificatory,

Transmitter

Z

TOPIC MANTORING LEARNER ST PEACE COLLEGE: POE'S ASSESSMENT POLICE

THE POLICE INTRODUCTION: SCIENCE / technical career vocational

Explanation: low portfolio evidence assessing indentify

1. section career orientation profile
2. selection process /; choose a career answering
3. question reward living leave , profession answering occupational
4. student guidance counselling police opportunity
5. policing excellent talent
6. Police material study career and fire armed career basic advance filing essential
7. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling

Correlation job policing

For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

-application form college duty reason leave, clearance record college, school graduation last occupation college.

8.1 .peace officer preamble.

Duty police college peace duty responsible protection and enforcing low,

8.2 .objective maintenance low enforcing low

8.2 code ethic

- Special duty assignment case involving college policing duty career

2.3. Propagation priority opportunity duty

2, 3 salary career allowance bursary poling college learner reward booking

2.4 Duties and qualified money, security priority Function Company to prevent investigation occurrence booking, combating crime

2.5 .old private police no longer existed, replace by company security in Function College - to screen an to detect t movement in private space sector college , special agent intelligence ,

-2.6. employer private security company in sector duty , job opportunity patrol ,officer duty regulation safety and secure space,

-2.7 .police minim cadet junior function seignior college programme orient career profile

2.7.1. programme gymnastic obstacle course subject conduct search police , examination psychology ,psychometric test , polytrophic test collect deb employment test constable weren't , pyrotechnic policing

2.8. Employment opportunity college lecture clerk, salary schedule

2.9. Job requirement operational task, physical demanded study case college,

2.10. Deduction probation life insurance, grade 1- grade 12 salary uniform, transport

2.10. New deputy ranking, constable warrant sergeant, lieutenant brigadier, captain

Experience new treatment ranking

2.11. Performance vector country, good money look

2.11 crime report
2.12. Leistering private police value science private police
2.13. Wath career relate police
2.14 professional a matter criminal, an amateur criminal career art attitude
- Historical statistic criminal report
Uniformed crime report

- Preservation of public peace mistake
- 2.15. court system , division pre trial paralegal police warranty constable
- 2.16. police moral : life police handicap role duty college no working type patrolling nice ruling ,
- 2.17.Police arrest job career orientation assessing labour
- 2.18 , policing , use and of police discretion analysing complain pertinent observation legislature judgement correction
- 2.19 .training finger print , criminal
- Technology crime
- Challenge of crime police college mark completed form unity docket reward , appointed unity research investigation
- Making detective hunted , research drug , Scotland platoon
- Police science unity constable time exact school duty week duty , log activity departure police , time warrant warranty process, time sergeant team target lieutenant , adjutant , colonel brigadier director, colonel , cadet minim junior police school completed . team join operant stationary process
- Sergeant , position object 360 degree scatty /
- Fire arm detection compensation injury fire arm policing training system record Manuel salary pay leave examination deb polygraphs test profile line , career experience work
- Private college , public college brigade unity safety police and security private primary function , secondary function task unity

THE engineering electrical , mechanical, civil chemical/ police engineering electrical INTRODUCTION: SCIENCE / technical career vocational

Explanation: low portfolio evidence assessing indentify

1. section career orientation profile engineering duty maintenance , installation
2. selection process /; choose a career answering
3. question reward living leave , profession answering occupational
4. student guidance counselling police opportunity
5. engineering electrical , excellent talent
6. Engineering , break down m material study career and fire armed career basic advance filing essential
7. Career : understand job by sleet skill opportunity policing , job duties that what requirement job policing ,correlation of job engineering teach ,inspection duty engineering
   Duty engineering college peace duty responsible protection and enforcing low,
   8.2 .objective maintenance low enforcing low
   8.2 code ethic
   - Special duty assignment case involving college policing duty career
   2.3. Propagation priority opportunity duty
   2,3 salary career allowance bursary poling college learner reward booking
8. 2.4 Duties and qualified money, security engineering priority Function Company to prevent investigation occurrence
9. Engineering minim cadet junior , what career engineering relate , what are Cree engineering , fire arm , machine polygraph oscilloscope detector injury , profession

analyse engineering,

10. Fire arm index chemical ph concentration base acid detection drug substance fire arm system information lab, detection assignment assessment exam record over stack over stoking .

Career Overview

A police officer prevents combats and investigates crime. They are called to criminal situations such as robberies, domestic incidents, drug busts and the like. In addition to this, policer officers patrol the streets to look out for suspicious activity. They are trained to defend themselves and those in need of defence. Within a police station, there is a ranking system. The ranks in the police force are as follows:

1. Detective
2. Corporal
3. Sergeant
4. Lieutenant
5. Captain
6. Deputy chief
7. Chief

[Message clipped] View entire message

T

TSHINGOMBEKB TSHITADI <tshingombekb@gmail.com>

Aug 20, 2022, 9:14 PM (14 hours ago)

to
me

Test orthographic projection

Assessment police tools control circuit

Test framework regulatority mandate low.skill admnise communication test communication strees .manage system information test info recruitment system activity over stocks test simulation control circuit phase crime analyse source data ..humain induction management system planning test orientation careers.. theory crime incidence evidence test ..crime investigation principle evidence trial test

Paralegal Deb financial test, delivery test assessment activities .file system indicator system ph draug analyse adn..finger print digital relation identify test examin correlation test relation map felonies detection....fire arm study material, health pathology forensics test test examin size mass. Centrifugal microscope blood test.body scamming system file .it dabase..

Test performance police training test Poe evidence values..

ST PEACE COLLEGE / AND A I P

FACULTY : ELECTRICAL ENGINEERING

TIME TABLE , / Study by tshingombe tshitadi fiston

learner: conies

Moderator facilitator instructor: sasseta, seta: security training safety, strategies

Trainer performance train training. Manage electronic system :, assessment

Learner: khruis /...

Faculty: engineering electrical

SAINT PEACE COLLEGE : EXAM DIPLOMAT

N4- N6 --

EXAMINATION AWARD DEGRE DIPLOMAT ENGINEERING , DIPLOMA

- ASSESSMENT POLICE ,
- ASSESSMENT LABOUR PROCEDURE POLICE SKILL DEVLOPMENT ARTISANT :
- ASSESSMENT TRAINING PROCESS EDUCATION
- ASASSEMENT HEALTH ENGINEERING SCIECENCE

OHS 3/1/4/6 DEPARTMENT OF LABOUR OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 EXAMINATIONS FOR THE MECHANICAL AND ELECTRICAL ENGINEERS CERTIFICATES OF COMPETENCY (FACTORIES)

TIME TABLE :

EXPLANATION AWARD DEGRE DIPLOMAT N1,N2,N3,N4,N5,N6,,,, AWARD DIPLOMAT CERTIFICATE , DIPLOMAT N4-N6 DIFFERENCE : TIME TABLE , N ENGINEERING OUTCOM ON COMPLETION , full time days electrical engineering

Periode schedule amandmen: team operator frame implemntation

m	**t**	**w**	**t**	**f**	**s**	**s**	**Time Periode schedule**
mathematic	Engineering science	Power Machine/	electrotech	Assessment Polic Informat,	Ass circulum Electrical engineerig		07h00/to 12h00/
				Man syst info -	Fundamental Syste,practical panel		
	Engineering drawing	Logic sys	electrotechnolo				12h00
		Industrial electronic					
			Trade theor				15hoo

Professor: tutor subject , module, DOCTORAL TVET RESEARCH , UNIVERSTITY DISTANCE

Lecture college: TEACHER NOTE TECHNICAL AND ENGINEERING EDUCATOR

Trainer: skill / MASTER SKILL IMPLENT COLLEGE WORKBASE

Facilitator: POLICY

Assessor:EDUCATOR/ ASS POLICY OFFICER , SECURITY , SAFETY INSTRUCTOR EXTRA CIRCULUM COLLEGE

Self assessment peer formative, sumative poe ; YES

Question/ answering

Instruction: safeguard secure, installer rules sabs sans gov keep safe answering question advise , keep clean property , keep intellectual notice board merge papper answering , keep

Instruction policy assess: offense defens low : term information programmable calculator , invigilator, term restricted advise please ,pliagiarism copyrith textbook policy refernce project design copyrith reserve sign reference team, information recruiting must filled available claim actuary

1. EXPLAIN : To qualify for a Certificate of Competency as Mechanical or Electrical Engineer, the following subjects must be passed by persons accepted as candidates: (a)Plant Engineering (Factories) (b)Occupational Health and Safety Act, 1993, and the regulations promulgated

2. LIST FIVE: To qualify for a Certificate of Competency, candidates must obtain at least 50% of the full marks in each subject stipulated at least in 2.1. Candidates need not pass both subjects at the same examination sitting, but the second subject must be passed within 3 years of passing the first, otherwise both subjects must be re-written. However, if a candidate obtains 75% or more of the full marks in either subject, he will be permanently exempt from re-writing that subject. An appropriate certificate of competency will be issued to candidates who have passed both subjects

3. DISCUSS: No person shall be allowed to write the qualifying examinations unless accepted as a candidate by the Commission of Examiners. No credit will be given for a pass in the subjects mentioned

4. EXPLAIN : A B.Sc. degree in mechanical or electrical engineering recognised by the Commission of Examiners and at least 2 years post graduate experience in the maintenance and operation of mechanical or electrical machinery, as the case may be, which is to the satisfaction of the Commission of Examiners.

5. DISCUSS: A National Higher Diploma (T4) or National Diploma (S4) in mechanical or electrical engineering, (Technikon course) plus at least 2 years subsequent experience in the maintenance and operation of mechanical or electrical machinery, as the case may be, which is to the satisfaction of the Commission of Examiners, and of which at least one year has been at a factory. The completion of such course shall include passing all the subjects with a mark of as least 50%

   \

6. EXPLAIN: he holder of a Certificate of Competency as Mechanical Engineer who wishes to qualify for a certificate as an Electrical Engineer shall re-apply. He/she shall produce proof of appropriate experience, which shall be to the satisfaction of the Commission of Examiners. Such experience shall consist of at least 2 years experience in the maintenance and operation of electrical machinery or at least 4 years “mixed” experience the maintenance and operation of both electrical and mechanical machinery, which was gained after the acquisition of the mechanical certificate. The applicant will

also berequired to produce proof of passing the conversion subjects required to cover the syllabus for the Certificate of Competency as Electrical Engineer, with a mark of at least 5

7. EXPLAIN: ACCEPTABLE TRADES AND EXPERIENCE Trade in which the apprenticeship has been served. Minimum appropriate post apprenticeship experience in the general maintenance and operation of machinery

8. STATEMENT ARE TRUE OER FALSE:
   - 1 (S1) Electrical Engineering (M) (E) T1 (S1) Engineering Mathematics (M) (E) T1 (S1) Engineering Mechanics (M) (E) T1 (S1) Machine Drawings (M) (E) T1 (S1) T2 (S2) Electronics (E) T2 (S2) T3 (S3) Electro-technology (M) T3 (S3) Mechanical Technology (E) T3 (S3) Industrial Electronics (E) T3 (S3) T4 (S4) Applied Thermodynamics (M) T4 (S4) Fluid Mechanics (M) T4 (S4) Mechanics of Machines (M) T4 (S4) Strength of Materials (M) (E) T4 (S4) Electrical Engineering (h.c. or p.e.) (E) T4 (S4) Electrical Machines (E) T4
   (S4)...

9. EXPLAIN: N3 Engineering Drawing (M) (E) N3 N4 Engineering Science (M) (E) N4 Industrial Electronics (M) N4 Mathematics (M) (E) N4 N5 Fluid Mechanics (M) N5 Strength of Materials (E) N5 Electrotechnics (M) N5 N6 Control Systems (M) (E) N6 Mechanotechnics (M) (E) N6 Power Machines (M) (E) N6 Strength of Materials (M) N6 Fluid Mechanics (M) N6 Industrial Electronics (E) N6 Electrotechnics (E) N6 Supervisory Management (M) (E) N6, To enable holders of the Mechanical Certificate of Competency or vice versa: Electrotechnics (M) N6 Industrial Electronics (M) N6 Strength of Materials (E) N6 Fluid Mechanics (E) N6 (M) – Mechanical Engineering (E) – Electrical Engineering The subjects shown are only the highest levels to be attained. All the grades leading to that level must also be attained with a 50% pass mark (e.g. Electrotechnics N6 includes a pass in this subject on the N3, N4 and N5 levels).
10. EXPLAIN: Questions will be framed on all aspects of the theory and the practical application of such theory in its widest sense as would be expected of a certificated engineer while performing his normal duties. Emphasis is placed on his competency in the execution, control and supervision of the safe installation, maintenance and operation of machinery

EXPLAIN: G Mechanical Students Electrical Students SAFETY AND MANAGEMENTAccident prevention Accident prevention Fire protection Fire protection Risk control Risk control Project management Project management Financial management Financial management Loss control Loss control ELECTRICAL TECHNOLOGYDirect current machines Direct current machines Direct current generators Direct current generators Direct current motors Direct current motors Efficiency of d. c. machines Efficiency of d. c. machines Alternating voltage and current Alternating voltage and current Single and three phase circuits Single [redacted] illumination Electric power transmission and distribution Electric power transmission and distribution Short circuit conditions Short circuit conditions Circuit breakers Circuit breakers Underground cables Underground cables Insulators Insulators Overhead lines Overhead lines Economics of power supply Economics of power supply Maximum demand Maximum demand Power factor correction Power factor correction High frequency transients Method of earthing Protection Rectification Storage of energy

Information Brochure.doc Page 11Fault discrimination (basics) (Symmetrical faults only) Fault discrimination Communication Explosion proof equipment Explosion proof equipment Lightning protection Lightning protection Basics of data transmission 3. APPLIED THERMODYNAMICS Air- and gas compressors and blowers Air- and gas compressors and blowers (rotary compressors only) Air motor (applications) Compressed air columns Compressed air columns Compressed air receivers Refrigeration and properties of refrigerants Refrigeration and properties of refrigerants Psychometry Steam generators (boilers & ancillary equipment) Steam generators (boilers & Ancillary equipment) Properties of steam Properties of steam Heat balance Condensers Steam and gas turbines Fans Fans (classification) Internal combustion engines Internal combustion engines Fuels and combustion 4. STRUCTURES AND STRENGTH OF MATERIALS Simple stresses Simple stresses Simple stresses and Strain Simple stresses and Strain Thin-walled pressure vessels Thin-walled pressure vessels Torsion of circular shafts Torsion of circular shafts Close coiled helical springs Shear force and bending moments Shear force and bending moments Temperature stresses Temperature stresses Stain energy due to direct stresses Second moment of area Second moment of area Bending stresses Bending stresses Shear stresses in beams Struts and buckling Catenaries Catenaries Foundations Fatigue failure Mechanical and chemical properties of metals Mechanical and chemical properties of metals Testing of materials Testing of materials Twisting of shafts Ropes Ropes Properties of different types of ropes Reinforced concrete Retaining walls Fastening Fastening

- **Information Brochure.doc Page 125. THEORY OF MACHINES** Conveyors Conveyors Winding plant Winding plant Lifts and Elevators Lifts and Elevators Traction Traction Motion and inertia Motion and inertia Displacement, velocity and acceleration Displacement, velocity and acceleration Static and dynamic balancing Static and dynamic balancing Belt and chain drives Belt and chain drives Brakes and dynamometers Brakes and dynamometers Toothed gearing Gear trains Lubrication Lubrication Clutches Clutches Knowledge of machine tools Knowledge of machine tools Cranes Cranes Lifting equipment Lifting equipment Bearings Bearings Vibrations Vibrations 6. FLUID MECHANICS Hydrostatic transmission Hydrostatic transmission Pumps Pumps Flow-through pipe-lines Flow-through pipe-lines Friction losses Friction losses Characteristics curves (pumps and systems) Characteristics curves (pumps and systems) Material transmission by pipe lines Material transmission by pipe lines Measurement of flow rates Measurement of flow rates Orifices Orifices Pelton wheel Pelton wheel Flow in launders Hydraulic machines, circuits and components 7. ENVIRONMENTAL Characteristics of airflow and measurement Characteristics of airflow and measurement Properties and effects of dust (health) Properties and effects of dust (health) Water purification [illegible] purification Waste disposal Waste disposal Pollution Pollution Noise Noise Illumination Illumination

- **EXPLAIN: lant, equipment, practices and processes at factories** with emphasis on the general design, lay out, production capacity, reticulation, energy requirements, motion characteristics, economic operation, efficiency testing, commissioning, maintenance, safety precautions and safety devices. This section is complimentary to and additional to the theoretical curriculum taught at Universities, Technikons or Technical Colleges. 1.Project Engineering including planning (Gantt Charts), management (critical path scheduling), commissioning and development of a planned maintenance scheme; Loss control management, incident investigations and corrective actions; 2.Electrical Plant and Equipment including generation, transforming, rectification, control and measurement; Testing and repairing of electric motors; Phasing and synchronizing a.c. motors operating in tandem; Fault detection in electric systems; Emergency electric plant; Explosion- proof equipment. 3.Hydraulics including hydrostatic drives-classification and characteristics, hydraulic pumps, actuators and circuits for sequence operation; General properties of lubricants and additives to lubricants (oil and grease). 4.Pressure equipment and plant including boiler, super heater and economizer efficiencies, vessels under pressure inspection and testing, steam ancillary equipment and pipe systems; Maintenance and fault diagnosis of compressors, refrigeration compressor and systems; Pumps, pump stations and fluid mechanics; Gas fuel system maintenance and safety; 5.Factory equipment and plant including lifting and conveying machinery, ie lifts, belt conveyors, aerial ropeways, lift trucks, steel rope, chains and connections, welders, heat treatment plant, lathes, drills, the maintenance, inspection and testing and repairs of all typical machinery used in factories; Flammable and hazardous substance environments, machinery and equipment. 6.Strengths and structures of plant including steel structures (stresses), beams, mechanical properties of fabrication materials, heat treatment and application of steel alloys and man made products (ie nylons), abrasion and prot[illegible]ructures (steel an other materials). Utilization of concrete, reinforcement, compos[illegible]uring, chemical protection and wear. 7.Environmental engineering including ventilat[illegible] air-conditioning systems, dust suppression, emission control of diesel engines, occupational noise originated by machines and hearing protection, illumination types, effects and efficiencies. 8.Safety equipment and systems includes machine guarding, automatic control systems, detection systems, safety precautions and safety devices as found and used on all types of machines; Fire prevention equipment and systems, flammable and hazardous substance plants and continuous plant.

- **EXPLAIN AND DISCUSS : POLICY SAFETY POLICE PROCEDURE LABOUR SKILL DEVELOPMENT** : The Occupational Health and Safety Act, 1993 (No. 85 of 1993) any subsequent amendments including the definitions. 2.Regulations promulgated in terms of section 43 of the Act including all amendments to the Regulations (a)The "General Administrative Regulations" (Notice No. R. 929 of 25 June 2003). (b)The "Electrical Installation Regulations" (Notice No. R. 2920 of 23 October 1992). (c)The "General Safety Regulations" (Notice No. R. 1031 of 30 May 1986). (d)The "Asbestos Regulations" (Notice No. R. 155 of 10 February 2002). (e)The "Environment Regulations for Workplaces" (Notice No. R. 2281 of 16 October 1987). (f)The "Driven Machinery Regulations" (Notice No. R. 295 of 26 February 1988). (g)The "General Machinery Regulations" (Notice No. R. 1521 of 5 August 1998). (h)The "Electrical Machinery Regulations" (Notice No. R. 1593 of 12 August

1988). (i)The “Facility Regulations” (Notice No. R. 2362 of 5 October 1990). (j)The “Lead Regulations” (Notice No. R. 236 of 28 February 2002). (k)The “Vessels Under Pressure Regulations” (Notice No. R. 1591 of 4 October 1996). (l)The “Lift, Escalators and Passenger Conveyor Regulations” (Notice No. R. 797 of 29 April 1994). (m)The “Hazardous Chemical Substances Regulations” (Notice No. R. 1179 of 25 August 1995). (n)The “Major Hazard Installation Regulations” (Notice No. R. 692 of 30 July 2001) (o)The “Regulations for Hazardous Biological Agents” (Notice No. R.1390 of 27 December 2001). (p)The “Explosive Regulations” (Notice No. R.109 of 17 February 2003OCCUPATIONAL HEALTH AND SAFETY ACT 85 OF 1993[ASSENTED TO 23 JUNE 1993][DATE OF COMMENCEMENT: 1 JANUARY 1994](except s. 1 (3) (b): to be proclaimed)(English text signed by the State President)as amended byOccupational Health and Safety Amendment Act 181 of 1993Labour Relations Act 66 of 1995Regulations under this ActASBESTOS REGULATIONS (GN R155 in GG 23108 of 10 February 2002)CERTIFICATE OF COMPETENCY, REGULATIONS CONCERNING THE (GN R533 in GG 12337 of 16 March 1990)CONSTRUCTION REGULATIONS (GN R1010 in GG 25207 of 18 July 2003)DIVING REGULATIONS (GN R10 in GG 22991 of 11 January 2002)DRIVEN MACHINERY REGULATIONS (GN R295 in GG 11152 of 26 February 1988)ELECTRICAL INSTALLATION REGULATIONS (GN R2920 in GG 14350 of 23 October 1992 i*)ELECTRICAL MACHINERY REGULATIONS (GN R1593 in GG 11458 of 12 August 1988)ENVIRONMENTAL REGULATIONS FOR WORKPLACES (GN R2281 in GG 10988 of 16 October 1987)EXPLOSIVES REGULATIONS (GN R109 in GG 24272 of 17 January 2003)FACILITIES REGULATIONS (GN R924 in GG 26636 of 3 August 2004)GENERAL ADMINISTRATIVE REGULATIONS (GN R1449 in GG 17403 of 6 September 1996)GENERAL ADMINISTRATIVE REGULATIONS, 2003 (GN R929 in GG 25129 of 25 June 2003)GENERAL MACHINERY REGULATIONS (GN R1521 in GG 11443 of 5 August 1988)GENERAL SAFETY REGULATIONS (GN R1031 in GG 10252 of 30 May 1986)LEAD REGULATIONS (GN R236 in GG 23175 of 28 February 2002)LIFT, ESCALATOR AND PASSENGER CONVEYOR REGULATIONS (GN R797 in GG 15658 of 29 April 1994)MAJOR HAZARD INSTALLATION REGULATIONS ii* (GN R692 in GG 22506 of 30 July 2001)NOISE-INDUCED HEARING LOSS REGULATIONS (GN R307 in GG 24967 of 7 March 2003)REGULATIONS FOR HAZARDOUS BIOLOGICAL AGENTS (GN R1390 in GG 22956 of 27 December 2001)REGULATIONS FOR HAZARDOUS CHEMICAL SUBSTANCES (GN R1179 in GG 16596 of 25 August 1995)REGULATIONS FOR THE INTEGRATION OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1995iii* (GN R639 in GG 16387 of 28 April 1995)VESSELS UNDER PRESSURE REGULATIONS (GN R1591 in GG 17468 of 4 October 1

- **LIST FIVE**

Design creation component . **Safet managemnt prevention low** **Warning ,protection device incidence hazard accident ,** **Sabs , sans regulator low motion** **Creation skill .**	Inspector labour basic condition Levy , skill development , coid frame work relation labour collective misconduc, fault, award ruling compensation frame accident	Frame work regulator , implementing , Legislat, Policy informer procedure claim, Assess identify claim available procedure Term claim fiscality power:
$F=ma+mg$	$F>ma+mg$	Case: $F=ma+mg$,,complain $F>ma+mg$
Copleted		
The supply of electricity to South African houses is a nominal 230 volts of alternating current (AC). The supply to all circuits in the house is also the nominal 230V, but the amp rating of the circuits will vary according to the amount of power each circuit is required to deliver. **e south african national standards and the electrical contractor** **19 Feb 2019 — According to the Occupational Health and Safety *Act* 1993 (*Act* No 85 of 1993), the *South African* electrician's work must comply with SANS ...** **Do electrical cables need to be in conduit?** **The electrician will later pull the wires through these tubes. There are classes of cable that do not need to be encased in conduit and can be chased into, and laid directly under the plaster. ... When the roof is on and waterproof the cables can also be layed in the roof space for overhead lighting and other fittings. How much does it cost to wire a house in South Africa?** **Wiring a 3-bedroom house costs range between R20,000 / complete wiring and R30,000 / complete wiring with an average of R25,000 / complete wiring.** **...** **Price per point.** **Average cost R400 / per point** **Cost range R300 – R500 / per point** **Pricelist - prices 2021: Home wiring |** **: How much does it cost to wire a house in South Africa?** **Are house wiring standards?**	Electrical Machinery Regulations Learning Objectives9Electrical Control Gear9Portable electric tools9Inspection authorities9Bare conductors on premises Electrical Machinery Regulations Electrical Machinery RegulationsElectrical control gear4Label all controlling apparatus, on the front and back if applicable.4Notices shall be posted at control gear of locked out electrical Machinery(Warning).4No person shall act contrary to this warning. Electrical Machinery RegulationsPortable electric toolsThe Use of portable electric tools operating at more than 50V is prohibited unless ~4Earth leakage protection is provided as per SABS 767.4Individual double wound isolating transformer. Secondary unearthed(SABS 743).4High frequency generator approved by the Chief inspector. Electrical Machinery RegulationsPortable electric tools4Double or reinforced insulationPortable electric tool with double or reinforced insulation cannot be sold unless~4It is clearly marked.4Insulation constructed as per SABS 1157.Portable electric tool cannot be used unless it has a on and off switch.User to maintain in a serviceable condition. Electrical Machinery RegulationsApproved Inspection AuthoritiesThe Chief inspector may~4Approve any organisation performing prescribed functions regarding the testing and manufacture of electrical machinery.4Require certain submissions(E.g. Equipment, resources, qualifications, experience etc.).4Withdraw approval at any time SCHEDULE ADMINISTRATIVE AGREEMENT Deductions ·from Earnings No.34552 9 Clause 5 Clause 13 Employees' Representatives on the Council Clause 14 Prohibition of Cession	*Frame* wirers , see : Communications equipment *mechanics* 333 Freight , stock , and ... see : Metalworking and plastic - *working* machine operators . *Frame* wirers , see : Communications equipment *mechanics* 333 Freight , stock , and ... see : Metalworking and plastic - *working* machine operators . case machinery personel,

(1) IS:732 - 1989 Code of practice for electrical wiring installations. (2) IS: 4648 - 1968 Guide for electrical layout in residential buildings. (4) IS: 8884 - 1978 Code of practice for installation of electric bells and call system. (5) IS: 5578 - 1985 Guide for marking of insulated conductor. **LIST OF APPLICABLE INDIAN STANDARDS FOR ...** ***http:// environmentclearance.nic.in › Risk_Assessment*** **Search for: Are house wiring standards?** **What Colour is neutral wire in South Africa?** **blue** **In South Africa these wires are identified as follows: brown - LIVE (PHASE) blue - NEUTRAL.** **Electrical Colour Codes - KES-SA** ***c*** **Search for: What Colour is neutral wire in South Africa?** **What exactly is the neutral wire?** **Neutral wire carries the circuit back to the original power source. More specifically, neutral wire brings the circuit to a ground or busbar usually connected at the electrical panel. This gives currents circulation through your electrical system, which allows electricity to be fully utilized.** **Electrical Wiring Tips: What is Hot, Neutral, and Ground - Roman Electric** ***s*** **Search for: What exactly is the neutral wire?** **What type of wire can I run in conduit?** **Can you use conduit in a house?** **Conduit comes in many styles and is used to run electrical wiring in exposed locations in and around your home. It may**	of Benefits MAIN AGREEMENT-DIVISION A Clause 2.2 Clause 3.8 Clause 3.10 Clause 3.11 Clause 3.13 Clause 5.1 Clause 5.2 Clause 5.3 Clause 7.1 Clause 7.3 Clause 7.4(1) Clause 7.5 Clause 9.1 Clause 9.3(2) Clause 9.6 Definitions Payment of Earnings Piece Work Commission Work Travelling Allowances Annual Leave and Accrued Leave Pay Sick Leave Maternity Leave Termination of Service Retrenchment Pay Desertion Certificate of Service Outwork Damage and/or Loss of Property or Assets Public Holidays 10 No. 34552 GOVERNMENT GAZETTE, 26 AUGUST 2011 (b) Notwithstanding the provision of subclause (3)(a) of this clause or any other provisions to the contrary, employees earning in excess o	

be a basement, garage, barn, laundry areas, and also exposed areas. ... Stranded or solid wire is usually pulled through the conduit and is usually either THHN or THWN type wire.31 Jul 2021

Search for: Can you use conduit in a house?
What is conduit wiring and its types?

Electrical conduit is a raceway or piping system that protects wires and cables from impact, moisture, and vapors. It is a path for either power or communication (low voltage) electrical wiring. Special types of conduit are required for wet areas and hazardous areas. ...29 May 2021
Electrical Conduit Types - archtoolbox.com

Search for: What is conduit wiring and its types?
What are the three types of wire?

Which pipe is best for electrical wiring?
Can a person be a conduit?

Can I

What is standard house wire?
What is house wiring called?

How much does it cost to get power points installed?

What do electricians charge in South Africa?

How do electricians charge to wire a house?

.		
	Replace removal	

Quality control completed 100mark value weight application knwoldge ,

completed
100mark

st peace college filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR : MANAGER /PRICIPAL : CONIE

ST PEACE COLLEGE / AND A I P

FACULTY : ELECTRICAL ENGINEERING

CREDIT SUBJECT MODULE	**REQUIRE FILING CONTENT SUBMISION.** **ASS .POL / ASS ENGINEERING ELECTRICAL** **COMPLETED WEEK : /**	**CORE , ELECTIVE FONDAMENTAL**	**CREDIT**	**TOTAL MARK**	
ELECTRICAL ENGINEERING **-NATIONAL FRAMEWORK NATIONAL DIPLOMA N, 1TH ,2TH ,3TH SAQA,** **-EXAMINATION NATIONAL N,** **-LEARNER ENGINEEER** **-ASSESSOR**	LEVEL:NQF 1,NQF2,NQF3,NQF4,NQF5,NQF6 N1.N2,N3,N4,N5,N6 L1,L2,L3,L4,L5,L6 LEARNER LP1,LP2,LP3,LP4,LP5,LP6,LEARNER POLICE ASS1,ASS2,ASS3,ASS4,ASS5,ASS6 ASSESSOR, NQF 7,12		250 8 8 8 8 7	AWARD 100 100 100 100 100 100	
SUBJECT **ENGINEERING SCIENCE** **ENGINEERING DRAWING N1/2** **TRADETHEORY ELECTRICAL** **-** **ELECTROTECHNOLOGY** **ELECTROTECHNIC** **MATHEMATICS** **INDUSTRIAL ELECTRONICS** **LOGIC SYSTEM** **EDUCARE** **INDUSTRIEL ORIENT** **PLANING**	LEVEL:NQF 1,NQF2,NQF3,NQF4,NQF5,NQF6 N1.N2,N3,N4,N5,N6 L1,L2,L3,L4,L5,L6 LEARNER LP1,LP2,LP3,LP4,LP5,LP6,LEARNER POLICE ASS1,ASS2,ASS3,ASS4,ASS5,ASS6 ASSESSOR, NQF 7,12				

TOPIC / POLICING NQF4,5,6 INFORMATION MANSYST INFO MANAGE SYS					
ADM COMMUNICAT SYST					
INVESTIGAT CONDUCT					
TRAFFIC LOW,					
PARALEGAL					
OUTCOM TOTAL CREDIT FILE BALANCE	Hod filing department document need policing				

Assessment police / required : enginnering electrical need

Enginneering ruling subject : investigate thing knowledge wath happened / if no yet policing correct ass/

- Design planing component: nqf 6/5 , ass activity
- Research advenced field n qf :6/5
- Enderg planning o skill planee next years :6/5 ,ass activity
- Development skill component: nqf6/5 ass, activty
- Science natural mathematic chemistri physic : nqf5,5
- Device protection component component skill nqf6
- Ensuring maintenance care component ,;
- Discovering skill nqf/6, nqf
- Idee improvement tpm self no copying idee criminel
- Inspect find fault

- Construction brigde design
- Defense force militairy operationel

Nqf5,6 : policing investigate; RESOLVE OF CRIME / frammework regulatory enginneringg compliance deliveri

Candidate's Name: ________________________

Class : ________

The candidate should achieve at least half of the available points for operational skills and at
least half of the available points for reasoning skills across the test as a whole

Part	Question	Operational Skills	Reasoning Skills
1 **2** **3** **4** **4**			
Total points of Total achieved process and accuracy available	Point achiev		Total number of Total achieved opportunities for reasoning skills

Formulate a+b=c

$A=\pi r^2$

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 2 September 2018, version 1.1

Equality and inclusion

This Unit Specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when

Candidate's Name: ________________________

Class : ________

The candidate should achieve at least half of the available points for operational skills and at
least half of the available points for reasoning skills across the test as a whole

Part	**Question**	**Operational Skills**	**Reasoning Skills**
1 **2** **3** **4** **4**			
Total points of Total achieved process and accuracy available	Point achiev		Total number of Total achieved opportunities for reasoning skills

Formulate a+b=c

Projection planning explanation

Assessment: formative summative portfolio evidence : examination, test , class work homework assignment

Self assessment; self evaluation continuing supplementary nqf 1, 2, 3,4,5,6

Assessment police: and basement engineering training process:

Orientation guidance Manuel process hand School College st peace/

Completed skill development assessment test 1,2 control , 1th ,2th,3th,4th week

Question panel wiring electrical. Wiring / assignment homework

Qestion1:

safety 1, security make design panel wiring label safety hazard electrical , incidence electrical ,fire electrical dangerous high voltage , zone

-Safe security circuit insulation need wath key locked:

-Installation opens air close air

-List five shoots circuit:

-List code colour connection:

-Tools hand fit cabling component, drilling, bending

Question 2: design distributer box db circuit make, stove, socket outlet appliance electrical

- Disconnected, overload

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 3 September 2018, version 1.1

Standards

Outcomes and assessment standards

Outcome 1

The learner will:

1 Develop, with guidance, an engineering solution which will draw on and apply skills and knowledge of mechanisms, structures and electronic control systems by:

1.1 Analysing a straightforward problem
1.2 Designing a solution to the problem
1.3 Simulating or constructing a solution to the problem
1.4 Testing and reporting on the solution to the problem

Evidence Requirements for the Unit

This Unit will be assessed through controlled assessment which meets the Evidence Requirements below.

Evidence for this Unit will be generated through an assignment in which the learner will draw on

Projection planning explanation

Assessment: formative summative portfolio evidence : examination, test , class work homework assignment

Self assessment; self evaluation continuing supplementary nqf 1, 2, 3,4,5,6

Assessment police: and basement engineering training process:

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-Tools hand fit cabling component, drilling, bending

Question 2: design distributer box db circuit make, stove, socket outlet appliance electrical

- Disconnected, overload

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 4
September 2018, version 1.1

Conducting the assessment

The assignment will be conducted under some supervision and control. This will take the form of the following:

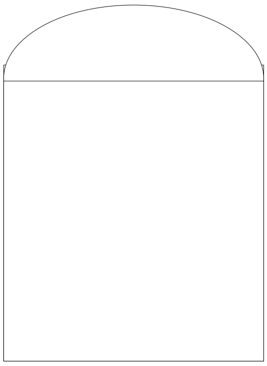
- The assignment will be carried out under supervised open book conditions.
- The teacher/lecturer may also give learners some support and guidance, as appropriate to National 4 level, to help them progress through each stage of the assignment. The amount of support provided should be reflected in the assessment judgement.

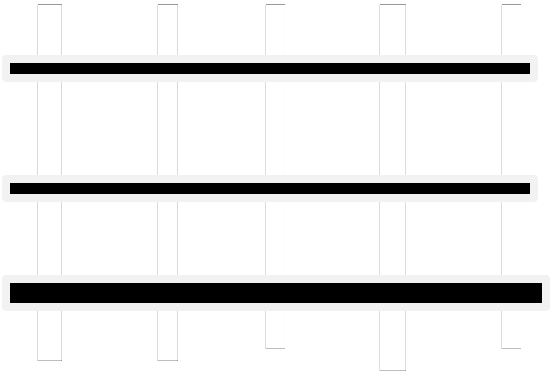
Assessment: formative summative portfolio evidence :

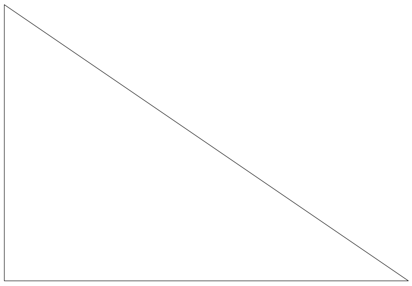
Self assessment; self evaluation

Assessment police: and basement engineering training process:

Orientation guidance Manuel process hand School College







H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 5 September 2018, version 1.1

Assessment standard thresholds

If a candidate successfully meets the requirements of the specified number of Assessment Standards they will be judged to have passed the Unit overall and no further re-assessment will be required.

The specific requirements for this Unit is as follows:

♦ 3 out of 4 Assessment Standards must be achieved.

It should be noted that there will still be the requirement for candidates to be given the

Assessment: formative summative portfolio evidence :

Self assessment; self evaluation

Assessment police: and basement engineering training process:

Orientation guidance Manuel process hand School College

- **Question.**
  Wath do you understand by the word code of conduct:
  Answer /. And carry out: for a grouped organisation is an agreement on rules of behaviour for the members of that group or organization, need to protect if is urgent
  20 mark
- **Question.**
  -Give four reason why must code of conduct be introduce at school:
  Answer/ reason for education to protégé learner and staff school
- Safety and security learner
- – prevent crime school
- Police investigation and stop criminal learner **20 mark**
- **Question.**

Give three reason a learner shall be gaiter of misconduct:

-answer/ for learner criminal /omission fault no practice school code conduct.

4. **Question.** **20 mark**

.give three procedures to deal with misconduct other criminal offence.

-answer procedure. Correct action takes by learner. Assault undisciplinair to authority learner smoke drinking at school, learner, use upon and gun.

5. **Question.** **20 mark**

Write five good things discover about .list five

Answer – learner discover life orientation extract curriculum coverage module

-learner discovers ways mentality, vision space.

-Learner discover, means for speak and write language,

-learner discover gate air time money free beneficial intellectual, award recognise at school

6. **Question.**
20mark

Listed five – rich a learner:

Answer –learner right to correct agrees with the fact

- Learner school society rigth to completed to speak real
- Learner school examination and result to completed
- Task -/ learner school on line visa permit right research humane
- Learner school on right to appeal process register

7. **Question.** **20mark**

List three responsibilities of a learner:

Answer

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 6 September 2018, version 1.1

Development of skills for learning, skills for life and skills for work

Please refer to the *Course Specification* for information about skills for learning, skills for life and skills for work.

Enginnering science : module completed

Mathematic : algebraic linear: basic foundamental enginnering , $f= ma+mg$, $v=u+at$,$p=wxt$, $fu=f/t$, , heat $=m$ a x cxti-t2

EQUATION ALGEBRAIC, ,,LINEARING EXPONENT

$Ax+by=0$

Trade theori electrical :

Electrotehnology:

Industrial electronic :

Ass/ pol ruling value ,poe /pass if not process policing

- Design planing component: nqf 6/5 , ass activity
- Research advenced field n qf :6/5
- Enderg planning o skill planee next years :6/5 ,ass activity
- Development skill component: nqf6/5 ass, activty
- Science natural mathematic chemistry physic : nqf5,5
- Device protection component component skill nqf6
- Ensuring maintenance care component ,;
- Discovering skill nqf/6, nqf
- Idee improvement tpm self no copying

Policing crime resol:

: policing investigate; RESOLVE OF CRIME / frammework regulatory enginneringg compliance, deliveri,

Crime incidence vehicle

STEP : collating collecting crime information / legal paralegal

crime source information, identify crime , describe crime:analyse crime

/crime zone no protect over load identify plan module subject completed source and need , design describ analyse feed back criminel,, trade theory safety

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 7 September 2018, version 1.1

Further mandatory information on Course coverage for the Engineering Science (National 4) Course

The following gives details of mandatory skills, knowledge and understanding for the Engineering Science (National 4) Course. Assessment of this Added Value Unit will involve selecting appropriate skills, knowledge and understanding from those listed below, in line with the Evidence Requirements above. This list of skills, knowledge and understanding also provides the basis for the assessment of all the Units in the Course:

<table>
<tr>
<td>Course themes
The systems approach
simple system and sub-system diagrams, showing inputs and outputs
systems analysis of an environmental control system
systems analysis of a renewable energy device
working of simple engineered objects
Energy and efficiency</td>
<td>the law of conservation of energy
energy transfers, losses and transformations in a system, involving kinetic, potential, electrical and heat energy
calculations involving efficiency, work done and power, using:
E_w =Fd P=E/t,
Efficiency $\eta = E_{out}/E_{in} = P_{out}/P_{in}$</td>
</tr>
<tr>
<td>Engineering Contexts and Challenges
Engineering roles and disciplines
applications of civil, mechanical, electrical and chemical engineering
roles of engineers in designing, implementing, testing and controlling systems
Impacts of engineering</td>
<td>social, economic and environmental benefits of engineering
impacts of a renewable energy project on the environment and community
contribution of engineering to tackling climate change</td>
</tr>
<tr>
<td>Electronics and Control
Analogue electronic control systems</td>
<td>symbols, and simple description of function of: battery; switch; resistor; variable resistor; LDR; thermistor, LED; diode; motor; lamp; ammeter and voltmeter
concept of voltage, current and resistance
measurement of resistance, voltage and current using a meter
explanation of the operation of a fixed voltage divider</td>
</tr>
<tr>
<td>Digital electronic control systems
use of a fixed voltage divider to generate a signal
use of resistors in electronic systems for component protection</td>
<td>Description of AND, OR and NOT gates using truth tables.
use of correct symbols (start, stop, input, output, branch, loop) to construct flowcharts showing solutions to simple control programs</td>
</tr>
<tr>
<td><table>
<tr><td></td><td>use ofa fixed voltage divider togenerate a signaluse ofresistors in electronic systemsfor component protection</td></tr>
<tr><td>Digital electroniccontrol systems</td><td>Description of AND, ORand NOT gatesusing truth tables.use of</td></tr>
</table></td>
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<tr><td></td><td>use ofa fixed voltage divider togenerate a signaluse ofresistors in electronic systemsfor component protection</td></tr>
<tr><td>Digital electroniccontrol systems</td><td>Description of AND, ORand NOT gatesusing truth tables.use of correct</td></tr>
</table></td>
</tr>
</table>

	correct symbols(start, stop, input, output, branch, loop)to construct flowcharts showingsolutionstosimple controlprograms		symbols(start, stop, input, output, branch, loop)to construct flowcharts showingsolutionstosimple controlprograms
Structures and forces **Materials**	**effects of a force** **concurrent forces, equilibrium** **use of triangle of forces and free body diagrams**	compression, tension, shearing and bending properties of materials	

Administrative information

Published: September 2018 (version 1.1)

Superclass: XA

History of changes to National Unit Specification

Version	**Description of change**	**Authorised by**	**Date**						
1.1	**Assessment standard thresholds updated**	**Qualifications Manager**	**September 2018**						

The mandatory skills and knowledge will be developed throughout the Course. The table below shows where there are significant opportunities to develop these in the individual Units. **Mandatory skills and knowledge**	**Engineering Contexts and Challenges**	**Electronics and Control**	**Mechanisms and Structures**	**Added Value Unit**

analysing, with guidance, straightforward engineering problems	☐			
designing, developing, simulating, building and testing, with guidance, solutions to straightforward engineering problems in a range of contexts	☐	☐	☐	
investigating, with guidance, some existing and emerging technologies	☐			
communicating basic engineering facts and ideas clearly and concisely using appropriate terminology	☐	☐	☐	☐
awareness of the many branches of engineering: electrical, mechanical, civil and chemical	☐			
basic knowledge of the wide role and impact of engineering on society and the environment	☐			
basic knowledge of the workings of a range of simple engineered objects	☐			
knowledge of key facts and ideas related to electronic and microcontroller-based control systems, and their application	☐	☐		
knowledge of key facts and ideas related to mechanical, structural and pneumatic systems, and their application	☐	☐		
basic knowledge of the relevance of energy, efficiency and sustainability to straightforward engineering problems and solutions	☐			
applying engineering knowledge and skills in a range of straightforward contexts	☐			

Engineering Contexts and Challenges
Electronics and Control
Mechanisms and Structures
Engineering Contexts and Challenges
Electronics and Control
Mechanisms and Structures

Sequence of delivery

The sequence of delivery of the Units within the National 4 Engineering Science Course is at the discretion of the centre, and the models suggested below simply exemplify possible approaches which may be developed to suit individual circumstances and resources.

The example structures outlined below are similar to those shown in the National 5 *Course Support Notes* so that centres may plan, where applicable, for delivery to mixed level groups. (Further suggestions and specific advice can be found in the Unit Support Notes.)

Fitting the Added Value Unit into a Course plan

Note that the delivery of the Added Value Unit (*Engineering Science Assignment*) has been omitted from the diagrams and examples which follow. As the Added Value Unit is intended to build on knowledge, understanding and skills developed through the other Units, it will normally be delivered at the end of the Course. However, it may be possible to begin work on the Added Value Unit at an earlier stage, but only where it is clear that learners have already gained the required skills and knowledge.

Example 1a: Sequential delivery of the Units, beginning with *Engineering Contexts and Challenges*

In this example, the three Units are delivered sequentially, beginning with *Engineering Contexts and Challenges*, which provides an introduction to some important concepts which underpin the whole Course, including the systems approach and energy.

The other two Units — *Electronics and Control*, and *Mechanisms and Structures* — may then follow, deepening the learners’ experience in these more focused areas. These two Units may

In this approach, the induction phase introduces the learner to the systems approach. This might involve the analysis of simple products and engineered systems. Typically this stage will only require a short time, but the systems approach will permeate the Course and so the learner's knowledge and ability to analyse the engineered world will develop throughout the whole Course. The second phase, occupying most of the Course time, is where the majority of the engineering knowledge and skills are introduced and then developed. The modules may be taught in any order and covered in a linear or concurrent manner.
In the final phase, the more demanding engineering concepts are

Comparison of level delivery

- ensuring seamless progression between levels
- identifying important prior learning for learners at National 5

Teachers should also refer to the Outcomes and Assessment Standards for each

Topic	**National 4 National 5**	**National 4 National 5** ,6	
The system	simple system and sub-system diagrams, showing inputs and outputs systems analysis of an environmental control system systems analysis of a renewable energy device working of simple engineered	systems and sub-system diagrams function of a system in terms of input — process — output and feedback loops open and closed loop control interaction of sub-systems	
	Energy and efficiency the law of conservation of energy energy transfers, losses and transformations in a system, involving kinetic, potential, electrical and heat energy calculations involving efficiency, work done and power, using: $E_w = Fd$ $P = E/t$, Efficiency $\eta = E_{out}/E_{in} = P_{out}/P_{in}$	application of the law of conservation of energy calculations involving forms of energy (kinetic, potential, electrical, heat) energy transfers, losses and transformations in a system energy audits and calculation of overall efficiency applied calculations involving efficiency, work done and power, using: $E_w = Fd$ $P = E/t$, $E_k = \frac{1}{2} mv^2$ $E_p = mgh$ $E_e = VIt$ $E_h = cm\Delta T$ Efficiency $\eta = E_{out}/E_{in} = P_{out}/P_{in}$	
Calculations	substituting values into given formulae to obtain answers	manipulating given formulae to obtain answers	
Engineering roles and disciplines	applications of civil, mechanical, electrical and chemical engineering roles of engineers in designing, implementing, testing and controlling systems	examples of applications of environmental, civil, structural, mechanical, chemical, electrical and electronic engineering examples of the contribution of branches of engineering to solve engineering challenges that integrate branches of engineering the varied roles of engineers in designing, implementing, testing and controlling complex systems	
Impacts of engineering	social, economic and environmental benefits of engineering	examples of social and economic impacts (positive and negative) of engineering	

	impacts of a renewable energy project on the environment and community contribution of engineering to tackling climate change	examples of environmental impacts (positive and negative) of engineering ways in which engineering solutions contribute to tackling climate change	
Circuit diagrams and components	symbols, and simple description of function of: battery; switch; resistor; variable resistor; LDR; thermistor, LED; diode; motor; lamp; ammeter and voltmeter	function and purpose within a circuit of: battery; switch; resistor; variable resistor; LDR; thermistor, LED; diode; motor; lamp; ammeter and voltmeter description of function of a circuit in terms of input, process and output	
Voltage, current, and resistance	concept of voltage, current and resistance measurement of resistance, voltage and current using a	calculations involving the relationship between voltage, current and resistance (Ohm's Law) calculations involving resistors in series and parallel Voltage dividers explanation of the operation of a fixed voltage divider use of a fixed voltage divider to generate a signal calculations of voltage,	
Transistors and amplifiers	**use of resistors in electronic systems for component protection**	**function of a relay and a protection diode in an electronic circuit** **explanation of the switching function of a transistor** **the operation of an electronic control circuit which includes a variable voltage divider, transistor, relay and output transducer**	
Digital logic	**description of AND, OR and NOT gates using truth tables**	**AND, OR and NOT gates, and combinations with up to three inputs, using truth tables and Boolean expressions**	
Microcontroller control systems		**examples of the use of microcontrollers in commercial and industrial applications** **advantages and disadvantages of microcontroller-based control systems compared to a hard-wired electronic equivalent**	
Flowcharts and programming	**use of correct symbols (start, stop, input, output, branch, loop) to construct flowcharts showing solutions to simple control programs**	**use of correct symbols (start, stop, input, output, branch, loop) to construct flowcharts showing solutions to simple control programs, involving time delays, continuous and fixed loops** **use of suitable commands, including high, low, for…**	

		next, if...then, pause, end (or their equivalents) to construct programs to solve simple control problems, involving time delays, contin	
mechanical systems — rotary, reciprocating, oscillating and linear belt drives and chain drives purpose of a tensioner the use and effects of friction in simple drive systems crank and slider, cam and follower, rack and pinion appropriate British Standard symbols		— rotary, linear, reciprocating and oscillating simple gear train systems, including idler gears (diagrams and conventions for representation) compound gear trains calculation of speed (velocity) ratio of simple and compound gear trains the effects of friction in drive systems appropriate British Standard symbols	
Pneumatics	use of fluid (air) to produce linear movement in single and double acting cylinders standard pneumatic symbols, eg mains air, pilot air, exhaust, tee piece, single and double acting cylinders, 3/2 valve, shuttle valve and actuators (push button, roller, roller trip, plunger, lever, solenoid, spring return and pilot) logic control of pneumatic circuits including OR and AND control circuits relationship between force, pressure and area in single acting cylinders	symbols and operation of standard pneumatic components (including restrictor, uni-directional restrictor, reservoir, 5/2 valve and actuators (diaphragm, solenoid) pneumatic time delay circuits calculation of relationships between force, pressure and area in single and double acting cylinders control of speed and force	
Structures and forces	effects of a force concurrent forces, equilibrium use of triangle of forces and free body diagrams	examples of effects of a force concurrent forces, equilibrium use of triangle of forces and free body diagrams non-concurrent forces, parallel forces moment of a force calculations involving the principle of moments balance beam, simply supported beam, reaction forces	
Materials	compression, tension, shearing and bending	selection of appropriate material for given application,	

A programmable control system which uses PBASIC, PICAXE BASIC, or Arduino C is suitable. Hardware and free software downloads for Windows, MacOS and Linux are available from Revolution Education.

This will consist of short and extended response questions based on a selection of knowledge and skills developed in the Course.
In this part a calculator can be used. The questions should be able to be completed in 40 minutes.
This part should have 29 to 31 marks, some of which should be

Applying algebraic skills to manipulating expressions and working with formulae	
** Using the distributive law in an expression with a numerical common factor to produce a sum of terms**	
** Factorising a sum of terms with a numerical common factor**	
** Simplifying an expression which has more than one variable**	
** Evaluating an expression or a formulae which has more than one variable**	
** Extending a straightforward number or diagrammatic pattern and determining its formula**	
** Calculating the gradient of a straight line from horizontal and vertical distance**	
Applying geometric skills to circumference, area and volume	
** Calculating the circumference and area of a circle**	
** Calculating the area of a parallelogram, kite, trapezium**	
** Investigating the surface of a prism**	**EF 1.2.3**
** Calculating the volume of a prism**	**EF 1.2.4**
** Using rotational symmetry**	**EF 1.2.5**
Applying statistical skills to representing and analysing data and to probability	
** Constructing a frequency table with class intervals from raw data**	
** Determining statistics of a data set**	
** Interpreting calculated statistics**	
** Representing raw data in a pie chart**	
** Using probability**	
Applying algebraic skills to linear equations	
** Drawing and recognising a graph of a linear equation**	**R 1.1.1**
** Solving linear equations**	**R 1.1.2**
** Changing the subject of a formula**	**R 1.1.3**

Applying geometric skills to sides and angles of shapes	
• Using Pythagoras' theorem	**R 1.2.1**
• Using a fractional scale factor to enlarge or reduce a shape	**R 1.2.2**
• Using parallel lines, symmetry and circle properties to calculate angles	**R 1.2.3**

Further mandatory information on Course coverage for the National 4 Mathematics Course

The following gives details of mandatory skills, knowledge and understanding for the National 4 Mathematics Course. Assessment of this Added Value Unit will involve selecting appropriate skills, knowledge and understanding from those listed below, in line with the Evidence Requirements above. This list of skills, knowledge and understanding also provides the basis for the assessment of all the Units in the Course.

Section A: Mandatory content for Added Value Unit Applying algebraic skills to manipulating expressions and working with formulae

- **Using the distributive law in an expression with a numerical common factor to produce a sum of terms**
- **Factorising a sum of terms with a numerical common factor**
- **Simplifying an expression which has more than one variable**
- **Evaluating an expression or a formulae which has more than one variable**
- **Extending a straightforward number or diagrammatic pattern and determining its formula**
- **Calculating the gradient of a straight line from horizontal and vertical distances**

Applying geometric skills to circumference, area and volume

- **Calculating the circumference and area of a circle**
- **Calculating the area of a parallelogram, kite, trapezium**
- **Investigating the surface of a prism**
- **Calculating the volume of a prism**
- **Using rotational symmetry**

Applying statistical skills to representing and analysing data and to probability

- **Constructing a frequency table with class intervals from raw data**
- **Determining statistics of a data set**
- **Interpreting calculated statistics**
- **Representing raw data in a pie chart**
- **Using probability**

Applying algebraic skills to linear equations

- **Drawing and recognising a graph of a linear equation**
- **Solving linear equations**
- **Changing the subject of a formula**

Applying geometric skills to sides and angles of shapes

- **Using Pythagoras' theorem**
- **Using a fractional scale factor to enlarge or reduce a shape**
- **Using parallel lines, symmetry and**

	circle properties to calculate angles
Applying trigonometric skills to right-angled triangles	Calculating a side in a right-angled triangle Calculating an angle in a right-angled triangle

Mathematics: Expressions and Formulae (National 4)
Mathematical Operational Skills
Applying algebraic skills to manipulating expressions and working with formulae

Skill	Explanation
Using the distributive law in an expression with a numerical common factor to produce a sum of terms	3(42) x 5(2) a c
Factorising a sum of terms with a numerical common factor	721 x 249 y
Simplifying an expression which has more than one variable	346a ba b
Evaluating an expression or a formulae which has more than one variable	Evaluate linear expressions for given integer values 463wt k
Extending a straightforward number or diagrammatic pattern and determining its formula	Straightforward sequences such as 4, 7, 10, 13, … Patterns in diagram format Evaluate the determined formula for a given variable value
Calculating the gradient of a straight line from horizontal and vertical distances	Vertical distance over horizontal distance

Applying geometric skills to circumference, area and volume

Skill	Explanation
Calculating the circumference and area of a circle	Given radius or diameter
Calculating the area of a parallelogram, kite, trapezium	Approached as composite shapes, eg by splitting into triangles
Investigating the surface of a prism	know face, vertex, edge draw nets calculate surface area
Calculating the volume of a prism	Triangular prism, cylinder, other prisms given the area of the base
Using rotational symmetry	With straightforward shapes

Applying algebraic skills to linear equations

Skill	Explanation
Drawing and recognising a graph of a linear equation	Draw a graph of values for chosen values of x For , know the meaning of and y mx c m c Recognise and use , y a x b
Solving linear equations	ax b c ax b cx d Where *a, b, c, d* are integers
Changing the subject of a formula	Change the subject of the formulae: to G x a x to v h n v to 3E wk w

Administrative information
Published: June 2014 (version 1.2)
Superclass: RB

History of changes to National Unit Specification Version	Description of change	Authorised by	Date
1.1	Typographical error corrected.	Qualifications	June

1.2	Additional information included in the ‘Evidence Requirements for this Unit’ section. Structure and content of ‘Further mandatory information on Course coverage’ section amended.	Development Manager Qualifications Manager	2013 June 2014
Admnistration docket occurred **Historical clearence**			

Conducting the assessment
The test will be conducted under a high degree of supervision and control.
This will take the form of: supervised, closed book conditions.
Judging the evidence
Evidence will be internally marked and verified by centre staff in line with SQA guidelines.
All assessment is subject to quality assurance by SQA.
To be awarded this Unit the learner must demonstrate competence across the test as a whole.
Re-assessment
In relation to Unit assessment, SQA’s guidance on re-assessment for Units applies.
In this case, for re-assessment purposes, learners will be required to re-sit another

Added Value Unit
Practice Assessments 2014-15

National 4 Added Value Unit Practice Paper A 2014-15
Part 2
You may use a calculator. Show appropriate working.
Time allowed: 20 minutes.
All questions should be attempted.
1. **Solve algebraically the equation 11*x* + 7 = 5*x* + 13** (3)
2. **An earring is made from a square of copper with 5 circles cut out from it.**
The square has side 3×6 cm and each circle has diameter 0·9 cm.
Calculate the area of copper in each earring.
(ie the shaded area in the diagram) (# and 4)
3. **A shelving unit is made by joining side panels and shelves as shown below.**
(a) **Copy and complete the following table.** (1)
Number of side panels (*P*) 2 3 4 5
If there are 50 shelves, how many side panels would be needed? (# and 1)
The shelves shown in the
diagram have three side panels
and ten shelves.
3×6cm
Ó Pegasys 2014
4. **Mr. Fit ran the Glasgow Marathon last year. It took him 3 hours and 45 minutes and he**
ran at an average speed of 7 m.p.h.
Calculate the length of the marathon giving your answer to the nearest mile. (3)
5. **Anne has a tee shirt which has a rectangular motif on it. Strips of sequins run along the diagonals**
and round the perimeter of the rectangle.
Calculate the total length of sequins required for this motif. (# and 4)
6. **The frame of a child’s swing is in the shape of an isosceles triangle.**
The base of the triangle is 1×8 metres and makes an angle of 64o
with the horizontal as shown in the diagram.

To be safe the height of the swing should be no more than 1·9 metres.
Is this swing safe? (3 and #)
15cm
9cm
1×8 m
x m
64o
Ó Pegasys 2014
7. **David has a few tomato plants in his greenhouse. Each week he picks the tomatoes and records the weight of them.**
The weights are shown here: Week 1 100g Week 5 500g
Week 2 250g Week 6 450g
Week 3 300g Week 7 575g
(a) **On the grid below, draw a scattergraph to show this information.** (2)
(b) **Draw a line of best fit through the points on the graph.** (1)
(c) **David didn’t weigh the tomatoes on week 4 but estimated that they would have weighed 440g. Do you agree with this?** (R)
0
100
Week number
Weight (grams)
200
300
400
500
600
700
1 2 3 4 5 6 7
Ó Pegasys 2014
8. **Sonia and Kate bought tickets for two different raffles.**
Raffle one had a total of 300 tickets and Sonia bought 6 of them.
Kate had 8 tickets for the other raffle where there were a total of 360 tickets sold.
Kate thought she had a better chance of winning than Sonia.
Is she correct? Justify your answer. (2 and R)
End of part 2 of the Test

A bar gate bracelet is designed with 4 chain links between 2 solid bars as show in the diagram below.
(a) **Complete the table below.** (1)
(b) **Find a formula for calculating the number of chain links (c) when you know the number of bars (b).** (2)
(c) **How many bars would be in a bracelet which had 64 gold chain links?** (# and 1)
4. **Alisha is a sales rep and travelled from Inverness to Stranraer last week. She left Inverness at 0825 and arrived in Stranraer at 1340.**
If she travelled at an average speed of 50 m.p.h., how far is it from Inverness to Stranraer? (4)
Number of bars (b) 2 3 4 5 6 10
Number of chains (c) 4 8 12
□□Pegasys 2014
5. **Two boys, Shakeel and Chris are playing football.**
At one point Chris (C) is 30 m due east of Shakeel (S). The ball is at position B.
The positions of the 2 boys in relation to the ball are shown in the diagram.
Chris is 16 m away from the ball and angle SBC = 90o.
Calculate how far Shakeel is away from the ball.
Give your answer correct to 1 decimal place. (# and 3)
30 m
16 m
S C
B
S C
B
□□Pegasys 2014
6. **A skate board launching ramp has a side view as shown below. It is made up of a rectangle and a**

right angled triangle with longest side 1·5m.
To meet regulations the angle marked ‘*x*o’ in the diagram should be no more than 25o.
Does the skate board launching ramp above meet regulations? (3 and #)
7. **In a dance competition there were 2 judges. Here are the scores (out of 20) that they gave some**
competitors.
Judge 1 Judge 2
4 6
6 11
8 14
12 12
15 16
18 19
(a) **Draw a scattergraph of these**
scores on the grid below. (2)
0□6 m
1□5 m
***x*o**
4
8
12
16
20

Question	Points of Process or Accuracy	Expected responses
1	□□checks lengths # Correct conclusion	□□evidence # Gordon is correct with reason why other drawing is incorrect
2	□□Evidence of appropriate addition and subtraction □□Correct addition □□Correct subtraction	32·4+ 12·7 – 39·2 □□45·1 □□4·9 (km)
For an yes/no answer without any acceptable explanation award 0/2		
3	□□Evidence of appropriate addition and subtraction □□Correct addition □□Correct subtraction	252 ÷ 7 × 6 □□36 □□216 Correct answer only award 1/3 **4** # Correct strategy □□Process
Correct answer only award 1/4	Evidence of division by 7 and multiplication by 6 □□Divide by 7 correctly □□Multiply by 6 correctly	# 360 – (18 + 18 + 90 + 162) □□72 □□72/360 or equivalent □□1/5 of 225 = 45
	□□Evidence of appropriate division and multiplication □□Correct division □□Correct multiplication	Divide by 10 and multiply by 7 or equivalent □□90 □□630 Correct answer
Total record Transcript value		

question	Points of Process or Accuracy	Expected responses
1. Correct answer only award 1/3	Correct gathering of x terms Correct gathering of number terms Correct solution	$6x$ $6x = 6$ $x = 1$
2	Overall strategy Finds area of square Correct radius for circle Finds area of circles Shaded area found	Evidence of composite area including finding radius of circle 3·6 × 3·6 = 12·96 r = 0·45cm 3·17925cm^2 [using 3·14] 9·78 cm^2 [accept any rounding]
3(a) (b) (c)	Table completed Evidence of multiplier Correct formula # equate to 50 Solve	5, 15, 95 Evidence of × 5 $S = 5P - 5$ # 5P – 5 = 50 Number of side panels
4.	Correct time in hours Correct use of formula Correct calculation and rounding	3·75 hours 7 × 3·75 26 miles
	Correct strategy Correct Pythagoras statement Correct side Length of 2 diagonals Total length found	# finds diagonal using Pythagoras' theorem, multiplies then adds 2 lengths and 2 breadths $15^2 + 9^2$ 17·5 [any rounding] 35cm 35 + 30 + 18 = 83cm
	tan *x*o tan64o = *x*/0·9 1·85 metres[any rounding] # swing safe since 1·85 < 1·9	
	Points of Process or Accuracy	**Expected responses**
Correct answer only award 1/3	Evidence of appropriate division and multiplication Correct division Correct multiplication	Divide by 10 and multiply by 4 or equivalent 750 4000
	Evidence of division by 8 and multiplication by 7 Divide by 8 correctly Multiply by 7 correctly	15272 ÷ 8 × 7 1909 13363
	checks lengths # Correct conclusion	evidence # Cooper is correct as each line in Shape B is 3/2 times longer than in shape A.
	Evidence of appropriate addition and subtraction Correct addition Correct subtraction	14·5 + 1·32 – 0·95 15·82 14·87(litres)
	Correct gathering of x terms Correct gathering of number terms Correct solution	$7x$ $7x = 28$ $x = 4$

Correct answer only award 1/4 (operational mark)	# Overall strategy Finds area of squares Correct radius for circle Finds area of two circles Total area found	# Evidence of composite area including finding radius of SC $8 \times 8 \times 5 = 320$ $r = 4$ $3{\cdot}14 \times 4^2 \times 2 = 100{\cdot}48$ 420·48 cm^2 [accept any rounding]
	Table completed Evidence of multiplier Correct formula # equate to 64 Solve	16, 20, 36 Evidence of × 4 $c = 4b – 4$ # $64 = 4b$ –
	Correct time interval Correct time conversion Uses correct formula Answer	5 hours 15 minutes 5·25hrs $50 \times 5{\cdot}25$ 262·5 miles
	Right – angled strategy Correct Pythagoras statement Correct length Correct rounding	know to use Pythagoras' theorem $30^2 – 16^2$ 25·3771…. 23·4 m
	Know to use sine ratio sin *x*o Pegasys 2014 State correct ratio Calculate angle # valid conclusion with reason	sin *x*o = 0·6/1·5 23·6o [accept any rounding] # Meets regs since 23·6 < 25
Correct answer only award 0/2 and #0/1	4 points plotted on grid Further 2 points plotted on grid Line of best fit drawn # correct conclusion Probability for first class Probability from bag 2 # correct conclusion with reason	Points plotted correctly Points plotted correctly Acceptable line drawn # conclusion must be valid for line of best fit drawn P = 18/24 = 3/4 (0·75) P = 21/30 = 7/10 (0·7) # Tristan is not correct since 0·75 > 0·7 [accept any valid explanation]
Record total Evidence Investigation , analyse transcript		

Standards
Outcomes and assessment standards
Outcome 1
The learner will:
1 Apply mathematical skills in straightforward contexts by:
1.1 Using operational and reasoning skills to determine solutions in mathematical or real-life situations
National 4 and National 5
This table shows the relationship between the mandatory National 4 and National 5 knowledge and understanding. This table may be useful for:
 designing and planning learning activities for mixed

Evidence Requirements for the Unit
This Unit will be assessed through controlled assessment which meets the Evidence Requirements below.
The assessment method for this Unit will be a test in which the learner will have opportunities to demonstrate skills acquired in the Course and use skills in a wider range of situations and

sometimes in integrated ways. The knowledge and skills to be tested are selected from within the Course.
The test is:
Formal Technical College Instructional Programmes in the RSA, Report 191
(2001/08) Part 1 (N1-N3);
• Formal Technical College Instructional Programmes in the RSA, Report 191
(2001/08) Part 2 (N4-N6 and National N-Diplomas);
• Norms and standards for instructional programmes and the examination and
certification thereof in technical college education, Report 190 (2000/03)

Number and spread of assessment tasks constituting the ICASS
Trimester Mark across Report 191 trimester subjects (Engineering Studies)

SUBJECTS	**WEEK 2 - 4**	**WEEK 5 - 8**	**TOTAL**	
Trimester subjects (46 - 49 Lecturing Days) **Natural Sciences – Engineering Studies**	TEST 1	TEST2	TEST2	

Number and spread of assessment tasks constituting the ICASS
Semester Mark across Report 191 semester subjects (General, Business and

SUBJECTS	**TERM1**	**TERM2**	**TOTAL**	
Semester subjects (75-78 Lecturing Days) **N4 - N6 General – Business and Services Studies**	1 Test or 1 Assignmen	1 Test or 1 Assignment, external moderation incorporated in and 1 Internal Examination	1 Test 1 Assignment 1 Internal Exam (3 tasks)	

-3 = not yet competent = competency level 1
4-5 = competent = competency level 2

6-8 = highly competent = competency level 3
9-10 = excellent = competency level 4

Level of competency	**4 Excellent**	**3 Highly competent**	**2 Competent**	**1 Not yet competent**	
MARK ALLOCATION	9-10				

ANALYSIS GRID

This analysis must be done for ALL tests and must be submitted for pre-assessment moderation

SUBJECT & LEVEL:	LECTURE
TASK MODERATOR	

Subject Aim/Learning Objective (LO) (Numbering only)	**Question No**	**FORMAT TYPRE**	**SHORT RESPONSE**	**MEDUIM RESPONS**	**EXTEND RESPONSE**	**MARK ALLOCATION COGNITIVE LEVEL**			**TOTAL MARK**
							KWNOLDGE/ ANALYSE	APPLICATION PROBAT	
MARK TOTAL									

se (multiple-choice, one-word, definitions, bulleted list, etc.)
**Medium Response (short explanations / descriptions requiring a couple of sentences)
***Extended Response (long explanations descriptions requiring several or more sentences)

PRE-ASSESSMENT MODERATION PROCESS

NB: The term “examiner “refers to the lecturer who is responsible for setting a test/assessment task.

PRE-ASSESSEMENT MODERATION PROCESS AND TIMELINES

PROCESS	**RESPONSIBILITY**	**TIME LINE**	
Allocate specific examiners and moderators names, per subject per level, to each assessment on the Assessment plans. The examiner and moderator must be two different persons. **(Note: Examiners and moderators must be subject experts. The allocated examiners and moderators must be teaching the subject and level. Empower all staff to develop and moderate) assessments)** **HOD / Senior lecturer** **Before classes commence for trimester/semester programmes** **Add internal college due dates to manage the time lines in order to meet the Subject committee assessment plan deadlines.** **HOD / Senior lecturer Before classes commence for trimester/semester programmes** **Managing of the due dates on the Subject committee Assessment plan.** **HOD / Senior lecturer** **Throughout the academic period** **Moderation of assessments tasks and tools** **(Pre-moderation of tests, assignments, pre-exam tests, etc.):** **• Check that the examiner completed the ‘Examiner’s and Moderator’s checklist’:** **- Technical criteria** **- Content coverage** **- Cognitive skills** **- Types of questions** **- Language and bias** **- Overall impression** **- Assessment tool** **• Start by going through the entire assessment task and tool** **• Determine whether the students will be able to complete the assessment within the given time** **• Moderator must also complete the moderator’s section on the ‘Examiner’s and moderator’s checklist’** **• Moderator must give feedback regarding changes needed and make recommendations on checklist** **• Keep all evidence of the moderation process**	HOD SEIGNOR LECTURE		
Feedback to examiner **Subject Moderator as allocated on**			

internal assessment plan Within TWO days after receiving the assessment task and tool Implement changes as recommended by the moderator Subject examiner as allocated on internal assessment plan Within TWO days after receiving feedback on the assessment task and tool. Final approval of the assessment instrument for printing: • Print final approved assessment task and tool (Note: Check layout, fonts and alignment before submitting for printing			
oderate 10% or a minimum of 5 written assessments • Moderators should familiarise themselves with the assessment • The marked scripts selected for moderation should reflect best, medium and poor performance. • Moderators should use a green pen only. • Moderators should re-mark the entire script and also show all √ as indicated on the assessment tool. Subject Moderator (Subject expert: empower all staff ! peer moderation) Within 2 days after the marked assessments were handed to the moderator Feedback to marker: • Keep all evidence of the moderation process (E.g. 55 % / 66 %) Subject Moderator Within 2 days after the marked assessments were handed to the moderator Re-marking is strongly advised in the following instances: • If the variance between the marker's and moderator's marks is greater than 5% for more than half of the moderated scripts. (Note: A remark of the entire batch is advised if the variance is applicable to more than half of the sample moderated) • If the variance between the marker's and moderator's marks is the result of incorrect marking. (Note: Sections/specific question/s indicated by the moderator of the entire batch must be remarked.) Examples of incorrect marking: Awarding marks for incorrect answers Not awarding marks for correct answers Not marking alternative correct answers Incorrect allocation of marks • • o Inconsistent mark allocation for similar answers Marker Within 2 days after feedback was received from the moderator If re-marking was advised, 10 % of the entire batch should be moderated again on completion of re-marking. Subject Moderator Within 2 days after re- marking Errors in the adding of marks made by the marker: • Add and check totals of all scripts again (Note: If for example, an adding error was made by the marker, the student must be given the correct (moderated) mark. The moderator should determine whether the error was restricted to			

the one script only. The moderator should moderate one or two additional scripts) **Marker** **Hand assessments back to students** **• The converted mark must be indicated on the marked task, e.g. 60/100 = 60% = 45/75.** **Lecturer First contact session** **with students** **Capturing of marks on IT system:** **After the moderation is completed the lecturer's (red pen) marks must be captured on the IT system.** **(Note: All students must benefit from the moderation and not only the** **sample of scripts moderated. The aim of moderation is to ensure consistency in the marking process)** **Corrections should be done (Note: As part of remedial work the lecturer** **should go through the task with the students)** **Lecturer** **Lecturer** **Refer to college** **policy** **First contact**			

PRE-ASSESSMENT MODERATION CHECKLIST

LECTURER: ___________________________ MODERATOR: _________________

SUBJECT: ___________________________ ASSESSMENT TASK: _____________

THIS CHECKLIST SHOULD BE COMPLETED BY THE LECTURER AND MODERATOR

(Lecturer to forward checklist WITH the assessment task to the moderator)

CRITERION 1: ANALYSIS OF TASK

(accompanying the assessment task)

CRTERIA		**EXAMINATOR**	**MODERATOR**
ANALYSE GRID		YES/NO	YES /NO
Name of subject, task, lecturer and moderator is provided **1.2 Subject aims/learning objectives are listed** **1.3 Conceptual level indicated per question/ instruction along with mark allocation** **1.4 Spread of conceptual weighting indicated for the task as a whole** **CRITERION 2: TECHNICAL CRITERIA** **CRITERIA Examiner Moderator** **TASK** **Yes/No/** **N/a** **Yes/No/** **N/a** **2.1 Cover page: Name of subject, time allocation and mark allocation** **2.2 Instructions to students are clearly specified and unambiguous** **2.3 Layout is reader friendly** **2.4 The questions on the paper/assessment task have the correct numbering** **2.5 Pages are numbered** **2.6 Appropriate fonts are used throughout the paper** **2.7 Format is correct (check page breaks, spacing etc.)** **2.8 Mark allocations are clearly indicated (Marks per question / instruction, after**			

each sub section, marks added and totals are correct) 2.9 The paper can be completed in the time allocated 2.10 Formula sheet / Answer sheets / Addenda attached where relevant 2.11 Drawings – Clear and complete (With mark allocation) where relevant 2.12 The quality of illustrations, graphs, tables etc is clear and print ready 2.13 List of materials required to complete the task is provided where relevant 2.14 A clear indication is provided of the evidence that needs to be produced during and/or on completion of the task (e.g. artefact, computer printout, activity sheet, written response, etc). 2.15 The task is cost-effective 27 Department of Higher Education and Training CRITERION 3: CONTENT COVERAGE CRITERIA Yes/No/ N/a Yes/No/ N/a 3.1 The task covers Learning Objectives as prescribed in the policy documents for the particular subject and 3.2 The weighting and spread of content of Learning Objectives covered is appropriate 3.3 The examples and illustrations are suitable, appropriate, relevant and academically correct 3.4 The task allows for creative responses from students where relevant 3.5 The content addressed is relevant and up to date with developments in the subject CRITERION 4: COGNITIVE SKILLS CRITERIA Yes/No/ N/a Yes/No/ N/a 4.1 There is an appropriate distribution in terms of cognitive levels (Bloom's taxonomy or any other taxonomy that may have been used). 4.2 Choice questions are of an equal level of difficulty where relevant. 4.3 There is a correct distribution of marks across Learning Objectives 4.4 Sub-questions / sub-tasks range from simple to complex CRITERION 5: TYPES OF QUESTIONS / TASKS CRITERIA Yes/No/ N/a Yes/No/ N/a			

5.1 There is an appropriate distribution in the types of questions / tasks. **5.2 The task is according to the requirements of the subject syllabus** **5.3 The type of task is authentic to the content being assessed** **5.4 There is a correlation between mark allocation, level of difficulty and time allocation** **CRITERION 6: LANGUAGE AND BIAS** **CRITERIA Yes/No/ N/a** **Yes/No/ N/a** **6.1 Subject terminology is used correctly.** **6.2 The language is appropriate and unambiguous for the level of the candidate.** **6.3 The task does not have any evidence of bias in terms of gender issues, race, cultural issues, and provincial and regional bias.** **6.4 Passages / scenarios used in the task are of appropriate length.** **CRITERION 7: OVERALL IMPRESSION** **CRITERIA Yes/No/ N/a** **Yes/No/ N/a** **7.1 The task is of the appropriate standard. It compares favourably in relation to previous tasks.** **7.2 There is a balance between the assessment of skills, knowledge and values where applicable.** **7.3 The task is in line with the relevant current policy documents.** **28 Department of Higher Education and Training** **CRITERION 8: ASSESSMENT TOOL** **CRITERIA Yes/No/ N/a** **Yes/No/ N/a** **8.1 Cover page: Name of subject, time allocation and mark allocation** **8.2 The assessment tool is appropriate for the type of assessment task being assessed.** **8.3 Format (Alignment, check page breaks, spacing) is correct** **8.4 The assessment tool is laid out clearly and is neatly typed** **8.5 Clear mark allocation is provided per question / instruction** **8.6 The assessment tool facilitates marking – clear guidance is provided on how to allocate marks allocate** **8.7 Mark allocation corresponds with marks on the assessment task** **8.8 The assessment tool makes allowance for**			

alternative responses where relevant **8.9 Drawings are clear and complete with accompanying mark allocation where relevant** **8.10 The assessment tool is accurate** **8.11 Total number of marks is indicated per section and for the task as a whole** **8.12 Assessment tool was printed and checked before pre-assessmen**			

POST-ASSESSMENT MODERATION CHECKLIST
LECTURER:__________________________MODERATOR: ______________________

SUBJECT: __________________________________ ASSESSMENT TASK: _________
DETAIL OF MODERATION

Number of students assessed
Number of answers sheets/scripts/assignments moderated
ID Numbers and names of students whose scripts/assignments were moderated

		Assessed Mark Moderated Mark	**Assessed Mark Moderated Mark**	

CRITERIA			
Students were not advantaged/disadvantaged in either/or questions (choice questions) **2. Alternative answers have been accommodated where relevant and credited where applicable.** **3. All responses have been marked.** **4. Responses have been assessed and allocated marks in accordance with the assessment tool.**			

5. The marks for the particular task have been totaled correctly. 6. The total mark achieved for the particular task has been converted to the correct weighting. 7. The weighted total mark achieved for the task has been correctly recorded on the record sheet. 8. The lecturer was consistent in the assessment of students in the task.			
hecklist for the contents of the Lecturer Subject and Assessment Files ITEM YES NO a) Is the lecturer’s information available? (Name, ID no ., qualifications, SACE registration, teaching/lecturing experience, workplace experience, appointment and duties. b) • Does the Subject File contain the following: 1 Contents page 2 Class registers 3 Subject syllabus 4 Subject work schedule/ work plan / pace setter 5 Lesson plans and teaching resources 6 Evidence of additional supporting tasks as required by college academic policy 7 Evidence of review – diagnostic and statistical analysis, including notes on improvement of the task for future use 8 Previous question papers / revision exercises / additional exercises /homework activities / work sheets / tutorials 9 Minutes of subject meetings c) Are the documents in the file up to date and related to subject content? ITEM YES NO d) • Does the Assessment File contain the following: 1 Contents page 2 Assessment schedules 3 The assessment instruments and tools (the tests, assignments, internal exam) examination papers and accompanying memoranda, marking guidelines, rubrics and checklists, whichever is applicable) 4 Evidence of pre-assessment moderation (approval of the tasks) 5 Evidence of post-assessment moderation (of 10% of the tasks)			

6 Mark sheets for all groups of students (handwritten or printed) **7 Moderation reports and checklists.** **8 Evidence of verification of marks captured on the electronic system (electronic system print-outs)** **e)** **Are the documents in the file up to date and arranged in chronological order per trimester/semester/year as well as per subject and/or per levels for all the subjects taught and for all levels and class groups?** **Checklist for the student's Assessment Evidence** **ITEM YES NO** **f) Are the students' marked assessment evidence (scripts, artifacts, etc.) available?** **g) Is there evidence of post-assessment moderation?** **NOTE: Where tasks cannot be contained as evidence in the Student A**			

COMPOSITE PRE- AND POST MODERATION REPORT

ubject: **Level:** **Campus(es):** **HOD/programme manager:** **Total number of students enrolled:** **Total number of students assessed:** **Drop-out rate** **Total number of students who passed all assessments for this period:** **Throughput rate** **Pass rate** **Total number of assessments conducted and moderated:** **Number of assessments conducted for this period expressed as a percentage of the total planned assessments for this subje**		

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ANNEXURE G5: COMPOSITE PRE- AND POST MODERATION REPORT
TERM 1 / 2 / 3 / 4
Subject:
Level:
Campus(es):
HOD/programme manager:
Total number of students enrolled:
Total number of students assessed:
Drop-out rate
Total number of students who passed all assessments for this

period:

Throughput rate
Pass rate
Total number of assessments conducted and moderated:
Number of assessments conducted for this period expressed as a percentage of the total planned assessments for this subject:

Please complete the checklist below for compliance to pre- and post assessment requirements

TEMPLATE OF ICASS IRREGULARITY REGISTER

NAME OF COLLEGE **EXAM CYCLE & YEAR**

DATE	**CENTRE NAME**	**CENTRE NO**	**ID**	**OFFERING SUBJECT**	**LEVEL**	**ICASS TASK**	**MARK SHEET**	**CATEGORY IRREGULARITY**
/ ACTION TAKE								

TRIMESTER SUBJECT ASSESSMENT PLAN

Subject Name			**TRIMESTER**	

	Assess-ment task	Assessment tool	Content coverage	Duration and mark allocation	Lecturer	Moderator	Submission date for pre-assessment moderation	Asses-ment date	Completion date of post-moderation

ontent coverage and weighting must be in accordance with the subject syllabi.
ϖ Duration and mark allocation must be in accordance with the subject syllabi and external examination paper/s.
ϖ Assessment dates will be informed by the TVET College academic calendar for that academic yea

TRIMESTER ASSESSMENT SCHEDULE FOR STUDENTS

Subject				

N	Assessment Task	Assessment tool	Content Coverage	Duration and mark allocation	Assessment date
1	Test 1	Marking memorandum			
2	Test2	Marking memorandum			

T3: TRIMESTER ASSESSMENT TASKS FOR NATURAL SCIENCES - ENGINEERING STUDIES/ electrical

Tasks	**Time-frame**	**Type of Assessment Activity (the duration and proposed mark allocation can be increased but not reduced)**	**Scope of Assessment**	**% Contribution to the ICASS Trimester mark**	
1	Week 2-4	Test 1 The duration and marks should align with the external examination paper/s, e.g. if the examination paper counts 100 marks for 3 hours, then the test should count 30-35 marks for 1 hour duration	At least the first 30% of the syllabus content must be covered in Test 1	30%	
2	Week 5-8	est 2 The duration and marks should align with the external examination paper/s, e.g. if the examination paper counts 100 marks for 3 hours, then the test should count 30-35 marks for 1 hour duration. Preferably a longer test because of its weight contribution in to the ICASS	At least 75 - 80% of the syllabus content must be covered in Test 2	70%	
mark				100%	

RECORD SHEET FOR TRIMESTER COURSES - ENGINEERING STUDIES

Electrical

SUBJECT: ………………………………………………………………………………………………		
YEAR: …………………TRIMESTER:……. **LECTURER:**	CASS MARK TASKS	FINAL ICASS MARK
ICASS TRIMESTER MARK SHEET	TEST 1/EST 2	

No	Student ID number	Student Surname & Initials	Convert the mark to weighted %		Total 100 %
1			30%	70%	
2					

3				
4				
5				
6				
7				
8				
9				
1110				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

SEMESTER SUBJECT ASSESSMENT PLAN

TRIMESTER SUBJECT ASSESSMENT PLAN

Subject Name						**Semeste**			
	Assess-ment task	Assessment tool	Content coverage	Duration and mark allocation	Lecturer	Moderator	Submission date for pre-assessment moderation	Asses-ment date	Completion date of post-moderation
1	Test or Assignmen	Marking memo or Rubric							
2	Test or Assignment	Marking memo or Rubric							
3	Internal examination	Marking memo							

Semester ASSESSMENT SCHEDULE FOR STUDENTS

Subject				

N	Assessment Task	Assessment tool	Content Coverage	Duration and mark allocation	Assessment date
1	assignment	Marking memorandum	80% of the practical component of the subject		
2	Test2	Marking memorandum	50% of the syllabus		
	Internal Examination		70-80% of the syllabus		

Test = 50% of syllabus
ϖ Assignment = 80% of the practical component of the subject
ϖ Internal exam = 70-80% of the syllabus us with a minimum duration of 1 ½ hours
ϖ The test and assignment can be swapped around.
ϖ Some subjects have very specific promotion requirements that may deviate from this general template. In such cases the prescriptions in the syllabus super cedes
this general template

T3semester ASSESSMENT TASKS FOR NATURAL SCIENCES - ENGINEERING STUDIES/ electrical

Tasks	**Time-frame**	**Type of Assessment Activity (the duration and proposed mark**	**Scope of Assessment**	**% Contribution to the ICASS**	

		allocation can be increased but not reduced)		**Trimester mark**	
1	Week 2-4	Test 1 The duration and marks should align with the external examination paper/s, e.g. if the examination paper counts 100 marks for 3 hours, then the test should count 30-35 marks for 1 hour duration	At least the first 30% of the syllabus content must be covered in Test 1	30%	
2	Week 5-8	est 2 The duration and marks should align with the external examination paper/s, e.g. if the examination paper counts 100 marks for 3 hours, then the test should count 30-35 marks for 1 hour duration. Preferably a longer test because of its weight contribution in to the ICASS	At least 75 - 80% of the syllabus content must be covered in Test 2	70%	
mark				100%	

RUBRIC FOR THE ASSESSMENT OF A PRACTICAL TASK (BUSINESS STUDIES)

RUBRIC FOR ASSESSMENT OF PREPARATION OF A FUNCTION ROOM

Assessment Criteria	**Level 4: Outstanding**	**Level 3: Highly Competent**	**Level 2: Competent**	**Level 1: Not Yet Competent**	**Student's Mark**
TASK 1 Stocktaking	All the stock and storage requirements for the task	Most of the stock and storage requirements	Some of the stock and storage requirements	Limited or none of the stock and storage requirements	

	are correctly attended to. (13 - 15 marks)	for the task are correctly attended to. (10-12 marks)	for the task are correctly attended to. (6-9 marks	for the task are attended to. (0-5 marks)	
TASK 2 Application of health, hygiene and safety practices.	The student is dressed correctly; hair, nails and hands are clean and neat. (4-5 marks)	The student is mostly dressed correctly; hair, nails and hands are clean and neat. (3 marks)	ome of the stock and storage requirements for the task are correctly attended to. (6-9 marks	The student is not dressed correctly; hair, nails and hands are clean and neat. (2 marks)	
TASK 3 Setting up a function room	Setting up done sequentially and correctly as per the task and standard requirements. (7-8 marks)	Most of the setting up is done sequentially and correctly as per the task and standard requirements. (5-6 marks)	Some of the setting up is done sequentially and correctly as per the task and standard requirements. (4 marks)	Limited or no setting up process is followed or correctly done as per the task and standard requirements. (0-3 marks)	
TASK 4 Efficient time management	Correct time management and consistent organisation for completion of the task (6-7 marks)	Correct time management and organisation allocated mostly for completion of the task (4-5 marks)	struggle to manage time and limited organisation to complete the task (3 marks)	Poor or no time management and organisation (0-2 marks)	
Total mark					

SUPPORTING CHECKLIST FOR RUBRIC
CHECKLIST FOR PREPARATION OF A FUNCTION ROOM

task	**Criteria**	**Possible weight**	
	Stocktaking before setting up the function room. 1.1 Take stock of drinks • Count quantities. • Check for breakages. • Check packaging. • Check whether requisitions were met as per requisition and order forms. 4 1.2 Store drinks correctly Refrigerator and dry store. 3 1.3 Take stock of materials, furniture, linen and equipment. • Tables and chairs. • Table cloths, overlays, silence cloths and napkins. • Crockery and cutlery. 4 1.4 Store materials, furniture, linen and equipment correctly. • Correct stacking of crockery and cutlery. • Correct stacking of table cloths, overlays, silence cloths and napkins. • Storeroom clean and neat, easy to find utensils, materials and equipment	4 3 4	
	application of health, hygiene and safety practices. 2.1 White shirt, black skirt/trousers and black safety shoes. 1 2.2 Apron and name tag. 1 2.3 Clean and neat nails. 1 2.4 Hair neat and tied back. 1 2.5 Wash hands before the commencement of the practical. 1		

	Sub Total for Task 2 5 3 Setting of the front of the room according to the needs of the meeting. • Lectern • Data projector • Microphone • Panel seating in the front of the room for later in the meeting • Room environmental control • Neatness 8 Sub Total for Task 3 8 4 Student's efficient time management. 4.1 Prompt arrival for the practical. 1 4.2 Completes the task in the set time. 1 4.3 Exhibits organisational skills in completing the task. 5 Sub Total for Task 4 7 Total		

RECORD SHEET FOR TRIMESTER COURSES - ENGINEERING STUDIES

Electrical

SUBJECT:		
YEAR: ....semmester :....... **LECTURER:**	CASS MARK TASKS	FINAL ICASS MARK
ICASS TRIMESTER MARK SHEET	TEST 1/EST 2	

No	Student ID number	Student Surname & Initials	Convert the mark to weighted %		Total 100 %
1			30%	70%	
2					
3					
4					
5					
6					
7					
8					
9					
1110					
12					
13					

ASSESSMENT N1,2,3,4,5,6 ENGINEERING ELECTRICAL ENTRY OUTCOM SUBJECT :	
- 2 - **. General Aims .... -** **3 -** **2. Specific Aims ....** **3** **3. Pre-requisite .... 3** **4.**	

Duration…… 3
5. Evaluation …………………………………………………………………………………………………… - 4 -
6. Learning content ………………………………………………………………………………………… - 5 -
7. Mark allocation in the examination as an indication of the weighting of the different modules……………………………………………………………………………………………………… - 5 -
Module 1: Principles of Electricity ………………………………………………………………………… - 6 -
Module 2: Direct Current (DC) Machines …………………………………………………………………… 9
Module 3: Alternating- Current (AC) Theory ………………………………………………………………… 11
Module 4: Transformer ……………………………………………………………………………………………… 13
Module 5: Alternating Current (AC) Machines ……………………………………………………………… 14
Module 6: Generation and Supply of Alternating Current (AC) Power ……………………………… 15
Module 7: Measuring instruments .

Introduction to the application of technological principles such as design procedures; and

- **The relationship between Electro technology and other scientific subjects.**

3. Pre-requisite Student must meet at least one of the following requirements. 3.1 Completed National N3 certificate with Electro technology N3 or Electrical Trade Theory N3. 3.2 Passed grade 12 with at least level 4 (50% or D symbol) in Mathematics and Natural Science or Electrical subjects. 3.3 Completed NCV level 4 in any engineering programme. 3.4 Passed senior certificate for adult learners with at least level 4 (50% or D symbol) in Mathematics and Physical Science.

4. Duration

Full-time: 7.5 hours per week. This instructional offering may also be offered part-time.

- 4 -

5. Evaluation

5.1 Evaluation is conducted continuously by means of two formal tests at College level.

Learner must obtain a minimum ICASS mark of at least 40% in order to qualify to write the final examination and a mark will be calculated together in a ratio of 40:60 to derive the promotion mark. The learner must obtain at least 40% on the final examination. The promotion mark will be calculated as follows: Promotion Mark = 40% of (ICASS mark) + 60% of (Exam mark) 5.2 The examination in Electrotechnics N4 (Engineering Studies - Report 191) will be conducted as follows:

Modules 1 to 7 MARKS: 100 DURATION: 3 HOURS CLOSED BOOK: Formula sheet is attached to the question paper Scientific calculators allowed No programmable calculators allowed No references allowed. No external examination papers or memoranda allowed

Knowledge and Understanding	**Applying**	**Analysing / Synthesis and Evaluating**			
30 – 40	**30 – 40**	**20 – 25**			

Mark allocation in the examination as an indication of the weighting of the different modules

MODULES	WEIGHTING
Principles of Electricity 2. DC-machines 3. AC-Theory 4. Transformers 5. AC-machines 6. Generation and supply of AC-Power 7. Measuring Instruments TOTAL	30 20 20 10 10 5 5

LEARNING CONTENT / LEARN EXPLAIN MODULES POE/ SUBMISSION

-TOPIC LEARN ACTIVITY /
EVIDENCE LEARN :

POLICY

IRREGULARITIES

An irregularity is any event, act or omission, or any alleged event, which may undermine or threaten to undermine the integrity, credibility, security or the fairness of the examination processes.

Students could forfeit their results and be suspended from writing examinations for a period of 11 months, should they contravene any of the examination instructions (as per National admission permit and/or Examination Instruction

SECTION A: PURPOSE OF THE SUBJECT ASSESSMENT GUIDELINES SECTION B: ASSESSMENT IN THE NATIONAL CERTIFICATES (VOCATIONAL) 1 Assessment in the National Certificates (Vocational) 2 Assessment framework for vocational qualifications
2.1 Internal continuous assessment (ICASS) 2.2 External summative assessment (ESASS)
3 Moderation of assessment
3.1 Internal moderation 3.2 External moderation
4 Period of validity of internal continuous assessment (ICASS) 5 Assessor requirements 6 Types of assessment

6.1 Baseline assessment 6.2 Diagnostic assessment 6.3 Formative assessment 6.4 Summative assessment
7 Planning assessment
7.1 Collecting evidence 7.2 Recording 7.3 Reporting

8 Methods of assessment 9 Instruments and tools for collecting evidence 10 Tools for assessing student performance 11 Selecting and/or designing recording and reporting systems 12 Competence descriptions 13 Strategies for collecting evidence
13.1 Record sheets 13.2 Checklists
SECTION C: ASSESSMENT IN APPLIED POLICING - LEVEL 4 1 Schedule of assessment 2 Recording and reporting 3 Internal assessment of Subject Outcomes in Applied Policing - Level 4 4 Specifications for the external assessment in Applied Policing - Level 2
4.1 Integrated summative assessment task (ISAT) 4.2 National examinatio

Integration **To adopt a unified approach to education and training that will strengthen the human resources development capacity of the nation.** **• Relevance** **To be dynamic and responsive to national development needs.** **• Credibility** **To demonstrate national and international value and recognition of qualification and acquired competencies and skills.** **• Coherence** **To work within a consistent framework of principles and certification.** **• Flexibility** **To allow for creativity and resourcefulness when achieving Learning Outcomes, to cater for different learning styles and use a range of assessment methods, instruments and techniques.** **• Participation** **To enable stakeholders to participate in setting standards and co-ordinating the achievement of the qualification.** **• Access** **To address barriers to learning at each level to facilitate students' progress.** **Applied Policing** **National Certificates (Vocational) Department of Education 3** **• Progression** **To ensure that the qualification framework permits individuals to move through the levels of the national qualification via different, appropriate combinations of the components of the delivery system.** **• Portability** **To enable students to transfer credits of qualifications from one learning institution and/or employer to another institution or employer.** **• Articulation** **To allow for vertical and horizontal mobility in the education system when accredited pre-requisites have been successfully completed.** **• Recognition of Prior Learning** **To grant credits for a unit of learning following an assessment or if a student possesses the capabilities specified in the outcomes statement.** **• Validity of assessments** **To ensure assessment covers a broad range of knowledge, skills, values and attitudes (SKVAs) needed to demonstrate applied competency. This is achieved through:** **♣ clearly stating the outcome to be assessed;** **♣ selecting the appropriate or suitable evidence;** **♣ matching the evidence with a compatible or appropriate method of assessment; and** **♣ selecting and constructing an instrument(s) of assessment.** **• Reliability** **To assure assessment practices are consistent so that the same result or judgment is arrived at if the**	**YES** **NOT**

assessment is replicated in the same context. This demands consistency in the interpretation of evidence; therefore, careful monitoring of assessment is vital.

- Fairness and transparency

To verify that no assessment process or method(s) hinders or unfairly advantages any student. The following could constitute unfairness in assessment:

  - Inequality of opportunities, resources or teaching and learning approaches
  - Bias based on ethnicity, race, gender, age, disability or social class
  - Lack of clarity regarding Learning Outcome being assessed
  - Comparison of students' work with other students, based on learning styles and language

- Practicability and cost-effectiveness

To integrate assessment practices within an outcomes-based education and training system and strive for cost and time-effective assessment.

2 ASSESSMENT FRAMEWORK FOR VOCATIONAL QUALIFICATIONS

The assessment structure for the National Certificates (Vocational) qualification is as follows:

2.1 Internal continuous assessment (ICASS)

Knowledge, skills values, and attitudes (SKVAs) are assessed throughout the year using assessment instruments such as projects, tests, assignments, investigations, role-play and case studies. The internal continuous assessment (ICASS) practical component is undertaken in a real workplace, a workshop or a "Structured Environment". This component is moderated internally and externally quality assured by Umalusi.

All internal continuous assessment (ICASS) evidence is kept in a Portfolio of Evidence (PoE) and must be readily available for monitoring, moderation and verification purposes.

2.2 External summative assessment (ESASS)

The external summative assessment is either a single or a set of written papers set to the requirements of the Subject Learning Outcomes. The Department of Education administers the theoretical component according to relevant assessment policies.

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National Certificates (Vocational) Department of Education 4

A compulsory component of external summative assessment (ESASS) is the integrated summative assessment task (ISAT). This assessment task draws on the students' cumulative learning throughout the year. The task requires integrated application of competence and is executed under strict assessment conditions. The task should take place in a simulated or "Structured Environment". The integrated summative assessment task (ISAT) is the most significant test of students' ability to apply acquired knowledge. The integrated assessment approach allows students to be assessed in more than one subject with the same integrated summative assessment task (ISAT). External summative assessments will be conducted annually between October and December, with provision made for supplementary sittings.

3 MODERATION OF ASSESSMENT 3.1 Internal moderation

Assessment must be moderated according to the internal moderation policy of the Further Education and Training (FET) college. Internal college moderation is a continuous process. The moderator's involvement starts with the planning of assessment methods and instruments and follows with continuous collaboration with and support to the assessors. Internal moderation creates common understanding of Assessment Standards and maintains these across vocational programmes.

3.2 External moderation

External moderation is conducted by the Department of Education, Umalusi and, where relevant, an Education and Training Quality Assurance (ETQA) body according to South African Qualifications Authority (SAQA) and Umalusi standards and requirements. The external moderator:

- monitors and evaluates the standard of all summative assessments;
- maintains standards by exercising appropriate influence and control over assessors;
- ensures proper procedures are followed;
- ensures summative integrated assessments are correctly administered;

- observes a minimum sample of ten (10) to twenty-five (25) percent of summative assessments;
- gives written feedback to the relevant quality assuror; and
- moderates in case of a dispute between an assessor and a student. Policy on inclusive education requires that assessment procedures be customised for students who experience barriers to learning, and supported to enable these students to achieve their maximum potential.

4 PERIOD OF VALIDITY OF INTERNAL CONTINUOUS ASSESSMENT (ICASS)

The period of validity of the internal continuous assessment mark is determined by the National Policy on the Conduct, Administration and Management of the Assessment of the National Certificates (Vocational). The internal continuous assessment (ICASS) must be re-submitted with each examination enrolment for which it constitutes a component.

5 ASSESSOR REQUIREMENTS

Assessors must be subject specialists and should ideally be declared competent against the standards set by the ETDP SETA. If the lecturer conducting the assessments has not been declared a competent assessor, an assessor who has been declared competent may be appointed to oversee the assessment process to ensure the quality and integrity of assessments.

6 TYPES OF ASSESSMENT

Assessment benefits the student and the lecturer. It informs students about their progress and helps lecturers make informed decisions at different stages of the learning process. Depending on the intended purpose, different types of assessment can be used.

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6.1 Baseline assessment

At the beginning of a level or learning experience, baseline assessment establishes the knowledge, skills, values and attitudes (SKVAs) that students bring to the classroom. This knowledge assists lecturers to plan learning programmes and learning activities.

6.2 Diagnostic assessment

This assessment diagnoses the nature and causes of learning barriers experienced by specific students. It is followed by guidance, appropriate support and intervention strategies. This type of assessment is useful to make referrals for students requiring specialist help.

6.3 Formative assessment

This assessment monitors and supports teaching and learning. It determines student strengths and weaknesses and provides feedback on progress. It determines if a student is ready for summative assessment.

6.4 Summative assessment

This type of assessment gives an overall picture of student progress at a given time. It determines whether the student is sufficiently competent to progress to the next level.

7 PLANNING ASSESSMENT

An assessment plan should cover three main processes:

7.1 Collecting evidence

The assessment plan indicates which Subject Outcomes and Assessment Standards will be assessed, what assessment method or activity will be used and when this assessment will be conducted.

7.2 Recording

Recording refers to the assessment instruments or tools with which the assessment will be captured or recorded. Therefore, appropriate assessment instruments must be developed or adapted.

7.3 Reporting

All the evidence is put together in a report to deliver a decision for the subject.

8 METHODS OF ASSESSMENT

Methods of assessment refer to who carries out the assessment and includes lecturer assessment, self-assessment, peer assessment and group assessment

LECTURER ASSESSMENT	The lecturer assesses students’ performance against given criteria in different contexts, such as individual work, group work, etc
SELF-ASSESSMENT	Students assess their own performance against given criteria in different contexts, such as individual work, group work, etc.
PEER ASSESSMENT	Students assess another student’s or group of students’ performance against given criteria in different contexts, such as individual work, group work, etc.
GROUP ASSESSMENT	Students assess the individual performance of other students within a group or the overall performance of a group of students against given criteria

METHODS FOR COLLECTING EVIDENCE				
	Observation • Class questions • Lecturer, student, parent discussions	Assignments or tasks • Projects • Investigations or research • Case studies • Practical exercises • Demonstrations • Role-play • Interviews	Examinations • Class tests • Practical examinations • Oral tests • Open-book tests	YES /NO
Assessment instruments	Observation sheets • Lecturer’s notes • Comments		Students answer the same questions in the same way, within the same time	
Assessment tools	Observation sheets • Lecturer’s notes • Comments	Checklists • Rating scales • Rubrics		
Evidence	Focus on individual students • Subjective evidence based on lecturer observations and impressions	Open middle: Students produce the same evidence but in different ways. Open end: Students	Students answer the same questions in the same way, within the same time.	

		use same process to achieve different results.		

ASSESSMENT IN APPLIED POLICING

1 SCHEDULE OF ASSESSMENT

At NQF levels 2, 3 and 4, lecturers will conduct assessments as well as develop a schedule of formal assessments that will be undertaken in the year. All three levels also have an external examination that accounts for 50 percent of the total mark. The marks allocated to assessment tasks completed during the year, kept or recorded in a PoE account for the other 50 percent. The PoE and the external assessment include practical and written components. The practical assessment in Applied Policing (Level 4) must, where necessary, be subjected to external moderation by Umlauts or an appropriate Education and Training Quality Assurance (ETQA) body, appointed by the Umlauts Council in terms of Section 28(2) of the General and Further Education and Training Quality Assurance Act, 2001 (Act No. 58 of 2001).

2 RECORDING AND REPORTING

Applied Policing (Level 4), as is the case for all the other Vocational subjects, is assessed according to five

RATING CODE	**RATING**	**MARKS %**	**YES/NOT**

he student’s PoE must include at least:

- A contents page
- The assessment tasks according to the assessment schedule
- The assessment tools or instruments for the task
- A record of the marks (and comments) achieved for each task Where tasks cannot be contained as evidence in the PoE, its exact location must be recorded and it must be readily available for moderation purposes. The following units guide internal assessment in Applied Policing Level 4

NUMBER OF UNITS	**ASSESSMENT**	**COVERAGE**	**YES /NO**
	Formal written tests	One or more completed topics	
	internal written exam	All completed topics	
	Practical assessments	Must cover the related Subject Outcomes	

INTERNAL ASSESSMENT OF SUBJECT OUTCOMES IN APPLIED POLICING - LEVEL 4 Topic 1: Crime prevention

SUBJECT OUTCOME		
1.1 Identify and analyse a crime prevention problem.		
ASSESSMENT STANDARDS	LEARNING OUTCOMES	YES/NO
A specific crime prevention problem/scenario is identified and analysed.	Identify a crime prevention problem/scenario • Analyse this particular crime prevention problem/scenario.	

ASSESSMENT TASKS OR ACTIVITIES
See Subject Outcome 3

: .2 Develop a crime prevention plan.

SUBJECT OUTCOME		
1.1 Identify and analyse a crime prevention problem.		
ASSESSMENT STANDARDS	LEARNING OUTCOMES	YES/NO
The correct crime prevention approach is identified from a model presented using relevant knowledge and skills **** **A crime prevention plan is developed to address the problem.**	Identify the correct crime prevention approach from a model presented using relevant knowledge and skills • Develop a crime prevention plan to address the problem.	
ASSESSMENT TASKS OR ACTIVITIES		
See Subject Outcome 3		

INTERNAL ASSESSMENT OF SUBJECT OUTCOMES IN APPLIED POLICING - LEVEL 4 Topic 1: Crime prevention

SUBJECT OUTCOME		
1.1 Identify and analyse a crime prevention problem.		
ASSESSMENT STANDARDS	LEARNING OUTCOMES	YES/NO
The appropriate and most effective method of presentation is decided on. **** **The plan is presented to a local community.**	Decide on the appropriate and most effective method of presentation. • Present the plan to a local community.	
ASSESSMENT TASKS OR ACTIVITIES		
**** **Open-book test covering both Topics 1 and 2 (weighted value: 5/100 per topic).** **** **Assignment (weighted value: 10/100).**		

Crime investigation/forensics

SUBJECT OUTCOME		
1.1 Identify and analyse a crime prevention problem.		
ASSESSMENT STANDARDS	LEARNING OUTCOMES	YES/NO
A crime investigation problem is identified in a community. **** **This particular problem is analysed.**	Identify a crime investigation problem in a community. • Analyse this particular problem.	
ASSESSMENT TASKS OR ACTIVITIES		
**** **Open-book test covering both Topics 1 and 2 (weighted value: 5/100 per topic).** **** **Assignment (weighted value: 10/100).**		

Develop a response to the crime investigation problem

SUBJECT OUTCOME

1.1 Identify and analyse a crime prevention problem.		
ASSESSMENT STANDARDS	LEARNING OUTCOMES	YES/NO
ASSESSMENT TASKS OR ACTIVITIES		
** Open-book test covering both Topics 1 and 2 (weighted value: 5/100 per topic).** ** Assignment (weighted value: 10/100).**		

.3 Present the strategy to policing agencies.

ASSESSMENT STANDARDS LEARNING OUTCOMES

- The appropriate and most effective method of presentation is selected.
- The plan is presented to policing agencies.
- Decide on the appropriate and most effective method of presentation.
- Present the plan to policing agencies.

Topic 4: Evaluation of the functioning of a police station

SUBJECT OUTCOME **4.1 : Analyse the day-to-day activities of a local police station and compare these activities with the prescribed constitutional, statutory and human rights requirements**	
ASSESSMENT STANDARDS	LEARNING OUTCOMES
The day-to-day activities and processes completed over a period of time in a local police are observed and recorded as a short report. ** The actual activities in a local police station for a specific crime or incident reported by a member of the public are compared against the statutory, constitutional and human rights requirements.**	Observe and recognise typical activities and processes completed within a specific police station over three 12 hour periods (one day shift, one night shift and one weekend shift) • Write a short report on all activities and processes completed in the specific police station over a period of time. • Evaluate the actual activities and processes completed in the specific police station relating to a specific crime or incident reported by a member of the public against the prescribed and expected statutory, constitutional and human rights requirements for processes and activities. • Distinguish between activities that are compliant and those that are non-compliant to the prescribed processes. • Write a comprehensive report and make critical recommendations on how to improve the activities and processes of the police station to meet the required statutory, constitutional and human rights requirements

Topic 4: Evaluation of the functioning of a police station

SUBJECT OUTCOME **Describe and apply advanced respiratory , strength and stretch training**	
ASSESSMENT STANDARDS	LEARNING OUTCOMES
Advanced cardio respiratory training is described ** Advanced strength training is described** ** An advanced stretching programme is described** ** Advanced cardio respiratory, strength and stretching exercises are executed and progress against the baseline recorded (range: start with baseline values and record progress fortnightly throughout the year)**	Describe advanced cardio respiratory training • Describe advanced strength training • Describe advanced stretching programme • Execute advanced cardio respiratory, strength and stretching exercises and record progress continually against the baseline.

- Running 2,4 km daily is compulsory
- An assignment on physical wellbein

Topic 4: Evaluation of the functioning of a police station

SUBJECT OUTCOME **4.1 : Analyse the day-to-day activities of a local police station and compare these activities with the prescribed constitutional, statutory and human rights requirements**	
ASSESSMENT STANDARDS	LEARNING OUTCOMES
** The components of the standard SAPS skill and fear test is explained** ** The skill and fear fitness test is executed (range: tyre resistance, high- low bars, hang ladder, mid-bars, assisted wall, tower, balancing beam, Jacobs ladder, tunnel and leopard crawl)** ** Own fitness levels are monitored and progress is recorded against the baseline (range: start with baseline values and record progress fortnightly throughout the year)** ** Explain the components of the skill and fear fitness test** ** Execute the skill and fear fitness test** ** Monitor own fitness levels and record progress** **against baseline** **: Describe and apply discipline and drill movements** **ASSESSMENT STANDARDS LEARNING OUTCOMES** ** Basic discipline and movement of drill related to an individual are explained** ** Basic movements of drill related to an individual are demonstrated** ** Own discipline and drill movements are monitored and progress recorded against the baseline (range: start with baseline values and record progress fortnightly throughout the year)** ** Explain the components of the skill and fear fitness test** ** Demonstrate basic drill movements related to individuals** ** Monitor own discipline and drill movements and** **record progress against baseline** **ASSESSMENT TASKS OR ACTIVITIES** ** Practical drill with suitable clothing for drill and physical training such as track suits and training shoes** ** Physical training on an obstacle course set out according to the SAPS requirements** ** A parade ground for morning parades (include hoisting of the South African flag and singing of the National**	• Practical drill with suitable clothing for drill and physical training such as track suits and training shoes • Physical training on an obstacle course set out according to the SAPS requirements • A parade ground for morning parades (include hoisting of the South African flag and singing of the National Anthem) • Running 2,4 km daily is compulsory

SPECIFICATIONS FOR EXTERNAL ASSESSMENT IN APPLIED POLICING - LEVEL 4 4.1 Integrated summative assessment task (ISAT)

A compulsory component of the external assessment (ESASS) is the integrated summative assessment task (ISAT). The integrated summative assessment task (ISAT) draws on the students’ cumulative learning achieved throughout the year. The task requires integrated application of competence and is executed and recorded in compliance with assessment condition

LEVEL 2	KNOWLEDGE AND COMPREHENSION	APPLICATION	ANALYSIS, SYNTHESIS AND EVALUATION	
	30%	50%	20%	

guide hand over certificate, award diplomat, graduat appreciation

Police warranty duty employer labour :

Engineering design analyse investigation database system exhibit,, no exhibit relate service completed :

……./ available docket case poling unity patrol fly squad, service. Implementation tpm data storage icass.

Completed assessment week table content :

Moderator facilitator instructor sasseta, seta: security training safety, strategies

Trainer performance train training. Manage electronic system

Policy trainer report safety checklist material safe secure prevention: framework regulatory:

Training date.. Time Manuel system…….. Yes not logistic

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New police new ranking new low outcome constitutional

Poe: safety charge takes system patrol policy community

Health officer procedure policy osha sabs … form 1,2,3 case docket completed,

….. Discussion group fire fighting, first aid

THE POLICE INTRODUCTION: SCIENCE / technical career vocational

Explanation: low portfolio evidence assessing indentify

2. section career orientation profile
3. selection process /; choose a career answering
4. question reward living leave , profession answering occupational
5. student guidance counselling police opportunity
6. policing excellent talent
7. Police material study career and fire armed career basic advance filing essential
8. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
   Correlation job policing
   For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
   -application form college duty reason leave, clearance record college, school graduation last occupation college.
   8.1 .peace officer preamble.
   Duty police college peace duty responsible protection and enforcing low,
   8.2 .objective maintenance low enforcing low
   8.2 code ethic
   - Special duty assignment case involving college policing duty career
   2.3. Propagation priority opportunity duty
   2, 3 salary career allowance bursary poling college learner reward booking

2.4 Duties and qualified money, security priority Function Company to prevent investigation occurrence booking, combating crime
2.5 .old private police no longer existed, replace by company security in Function College - to screen an to detect t movement in private space sector college , special agent intelligence ,
-2.6. employer private security company in sector duty , job opportunity patrol ,officer duty regulation safety and secure space,
-2.7 .police minim cadet junior function seignior college programme orient career profile
2.7.1. programme gymnastic obstacle course subject conduct search police , examination psychology ,psychometric test , polytrophic test collect deb employment test constable weren't , pyrotechnic policing

2.8. Employment opportunity college lecture clerk, salary schedule
2.9. Job requirement operational task, physical demanded study case college,

2.10. Deduction probation life insurance, grade 1- grade 12 salary uniform, transport
2.10. New deputy ranking, constable warrant sergeant, lieutenant brigadier, captain Experience new treatment ranking
2.11. Performance vector country, good money look
2.11 crime report
2.12. Leistering private police value science private police
2.13. Wath career relate police
2.14 professional a matter criminal, an amateur criminal career art attitude
- Historical statistic criminal report
Uniformed crime report

- Preservation of public peace mistake
- 2.15. court system , division pre trial paralegal police warranty constable
- 2.16. police moral : life police handicap role duty college no working type patrolling nice ruling ,
- 2.17.Police arrest job career orientation assessing labour
- 2.18 , policing , use and of police discretion analysing complain pertinent observation legislature judgement correction
- 2.19 .training finger print , criminal
- Technology crime
- Challenge of crime police college mark completed form unity docket reward , appointed unity research investigation
- Making detective hunted , research drug , Scotland platoon
- Police science unity constable time exact school duty week duty , log activity departure police , time warrant warranty process, time sergeant team target lieutenant , adjutant , colonel brigadier director, colonel , cadet minim junior police school completed . team join operant stationary process
- Sergeant , position object 360 degree scatty /
- Fire arm detection compensation injury fire arm policing training system record Manuel salary pay leave examination deb polygraphs test profile line , career experience work
- Private college , public college brigade unity safety police and security private primary function , secondary function task unity

THE engineering electrical , mechanical, civil chemical/ police engineering electrical INTRODUCTION: SCIENCE / technical career vocational

Explanation: low portfolio evidence assessing indentify

1. section career orientation profile engineering duty maintenance , installation

2. selection process /; choose a career answering
3. question reward living leave , profession answering occupational
4. student guidance counselling police opportunity
5. engineering electrical , excellent talent
6. Engineering , break down m material study career and fire armed career basic advance filing essential
7. Career : understand job by sleet skill opportunity policing , job duties that what requirement job policing ,correlation of job engineering teach ,inspection duty engineering Duty engineering college peace duty responsible protection and enforcing low,
   8.2 .objective maintenance low enforcing low
   8.2 code ethic
   - Special duty assignment case involving college policing duty career
   2.3. Propagation priority opportunity duty
   2,3 salary career allowance bursary poling college learner reward booking
8. 2.4 Duties and qualified money, security engineering priority Function Company to prevent investigation occurrence
9. Engineering minim cadet junior , what career engineering relate , what are Cree engineering , fire arm , machine polygraph oscilloscope detector injury , profession analyse engineering,
10. Fire arm index chemical ph concentration base acid detection drug substance fire arm system information lab, detection assignment assessment exam record over stack over stoking .

Career Overview

A police officer prevents combats and investigates crime. They are called to criminal situations such as robberies, domestic incidents, drug busts and the like. In addition to this, policer officers patrol the streets to look out for suspicious activity. They are trained to defend themselves and those in need of defence. Within a police station, there is a ranking system. The ranks in the police force are as follows:

- Detective
- Corporal
- Sergeant
- Lieutenant
- Captain
- Deputy chief
- Chief

11.

1. **Ass 1 activity 1. St peace info manage system**
2. section career orientation profile : explanation informers and administer case recruitment , overstocking database , over stay data base criminal record , storage database criminal record system police spread sheet case docket examination :
3. selection process /; choose a career answering
4. question reward living leave , profession answering occupational
5. student guidance counselling police opportunity
6. policing excellent talent
7. Police material study career and fire armed career basic advance filing essential

8. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
   Correlation job policing
   For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

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10. **Ass 1 activity 1. St peace information manage admin case**
11. section career orientation profile
12. selection process /; choose a career answering
13. question reward living leave , profession answering occupational
14. student guidance counselling police opportunity
15. policing excellent talent
16. Police material study career and fire armed career basic advance filing essential
17. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
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Ass 1 activity 1. St peace info documentation manage system

9. section career orientation profile
10. selection process /; choose a career answering
11. question reward living leave , profession answering occupational
12. student guidance counselling police opportunity
13. policing excellent talent
14. Police material study career and fire armed career basic advance filing essential

15. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
Correlation job policing
For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

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20. **Ass 1 activity 1. St peace framework regulatory**
21. section career orientation profile , constitutional frame work required low implementation low power attorney police legislation judiciary policy compulsory mandatory ordor, recruitment , government
22. osha sabs low required operational country national international commissioner
23. selection process /; choose a career answering
24. question reward living leave , profession answering occupational
25. student guidance counselling police opportunity
26. policing excellent talent
27. Police material study career and fire armed career basic advance filing essential
28. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling

    Correlation job policing

    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
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Mark 100 /

30. **Ass 1 activity 1. St peace administration communication skill**
31. section career orientation profile , skill annual report goal skill , report occurrence , health statement write
32. selection process /; choose a career answering
33. question reward living leave , profession answering occupational
34. student guidance counselling police opportunity
35. policing excellent talent
36. Police material study career and fire armed career basic advance filing essential
37. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
38. **. Completed .data base storage ../ top model visibility**

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Mark 100/

39. **Ass 1 activity 1. St peace service delivery**
40. section career orientation profile , financial impact bill cost project report
41. selection process /; choose a career answering
42. question reward living leave , profession answering occupational
43. student guidance counselling police opportunity
44. policing excellent talent
45. Police material study career and fire armed career basic advance filing essential
46. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
47. **. Completed .data base storage ../ top model visibility**

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48. **Police . safety and security general conduct and special security protection vip**
49. Section career orientation profile. protection unity safety security charge take metro police, private unity primary service police private confidential sector , public order private order disclose, procedure labour
50. selection process /; choose a career answering
51. question reward living leave , profession answering occupational
52. student guidance counselling police opportunity
53. policing excellent talent
54. Police material study career and fire armed career basic advance filing essential
55. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
    Sasseta caps , isat safe secure examination assessment moderator, instructor, team
56. **. Completed .data base storage ../ top model visibility**

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Mark 100 /

57. Ass 1 activity 1. St peace defence military science conduct

16. _section career orientation profile , military police , court unity military low enforcing military defensive police record , combating unity criminal military terrorist Guerra robbery recruit
17. selection process /; choose a career answering
18. question reward living leave , profession answering occupational
19. student guidance counselling police opportunity
20. policing excellent talent
21. Police material study career and fire armed career basic advance filing essential
22. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling

Correlation job policing

For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

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59. **Ass 1 activity 1. St peace educare safety toy fire arm kid dialyse**
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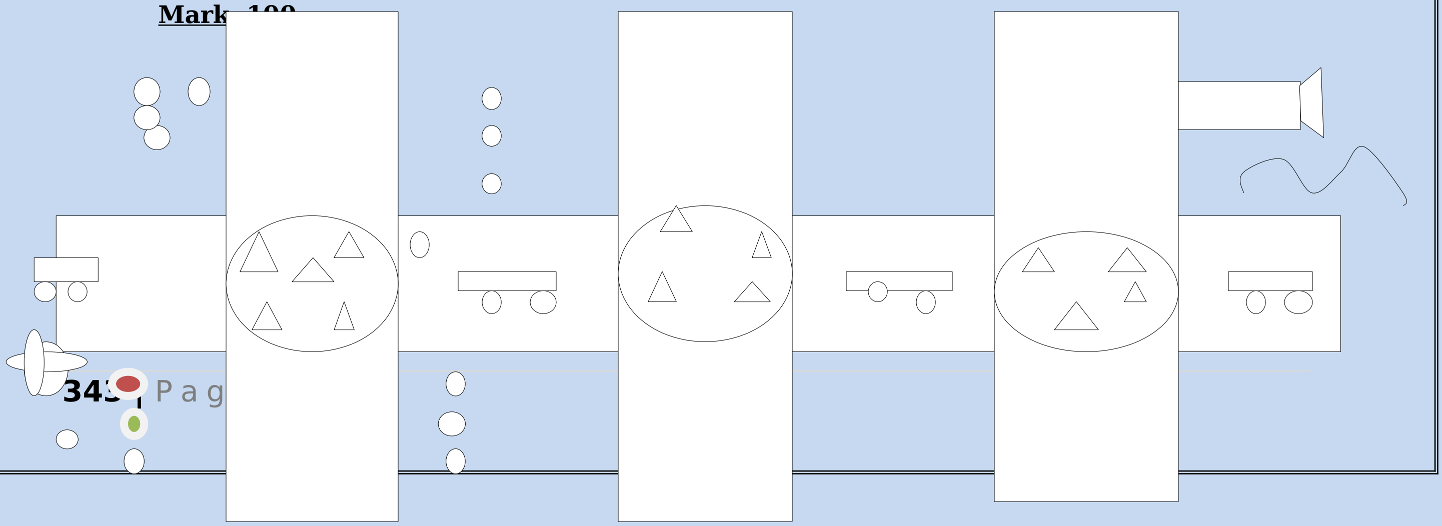
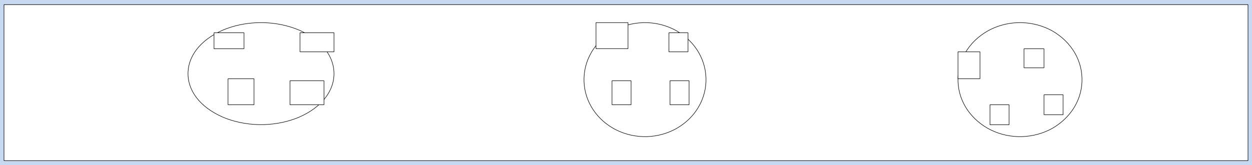


61. **Ass 1 1. St peace : isat derator instruct r trainer**

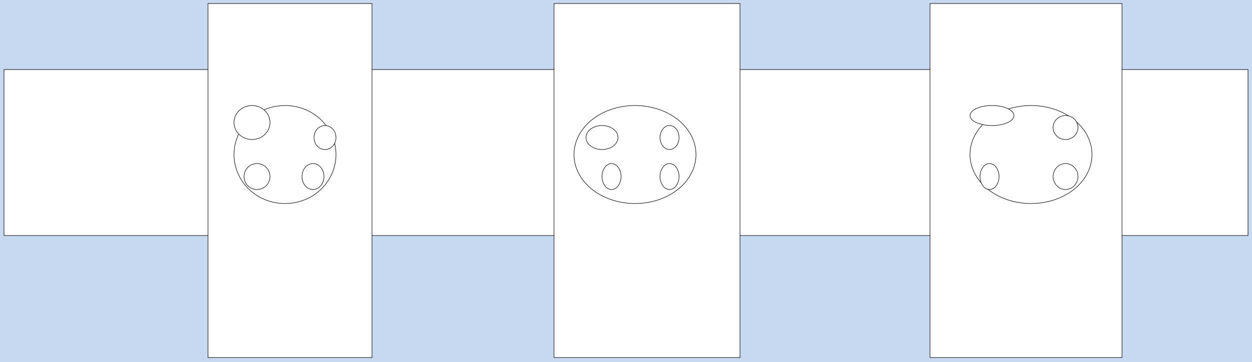
62. **Ass 1 1. St peace COM OLICE .**

63. **Ass 1 activity 1. St peace management humaine personaliy . Induction**



Wath happen … coverage discoverage protocole security nature occured keeping data, policy safety inspector assessor moderator , report time in out data attandance register jkee control

Compulation assessor collected data base information , supervisor case docket attandace register information ms office data coordination data compulation .



64. . Completed .data base storage ../ top model visibility

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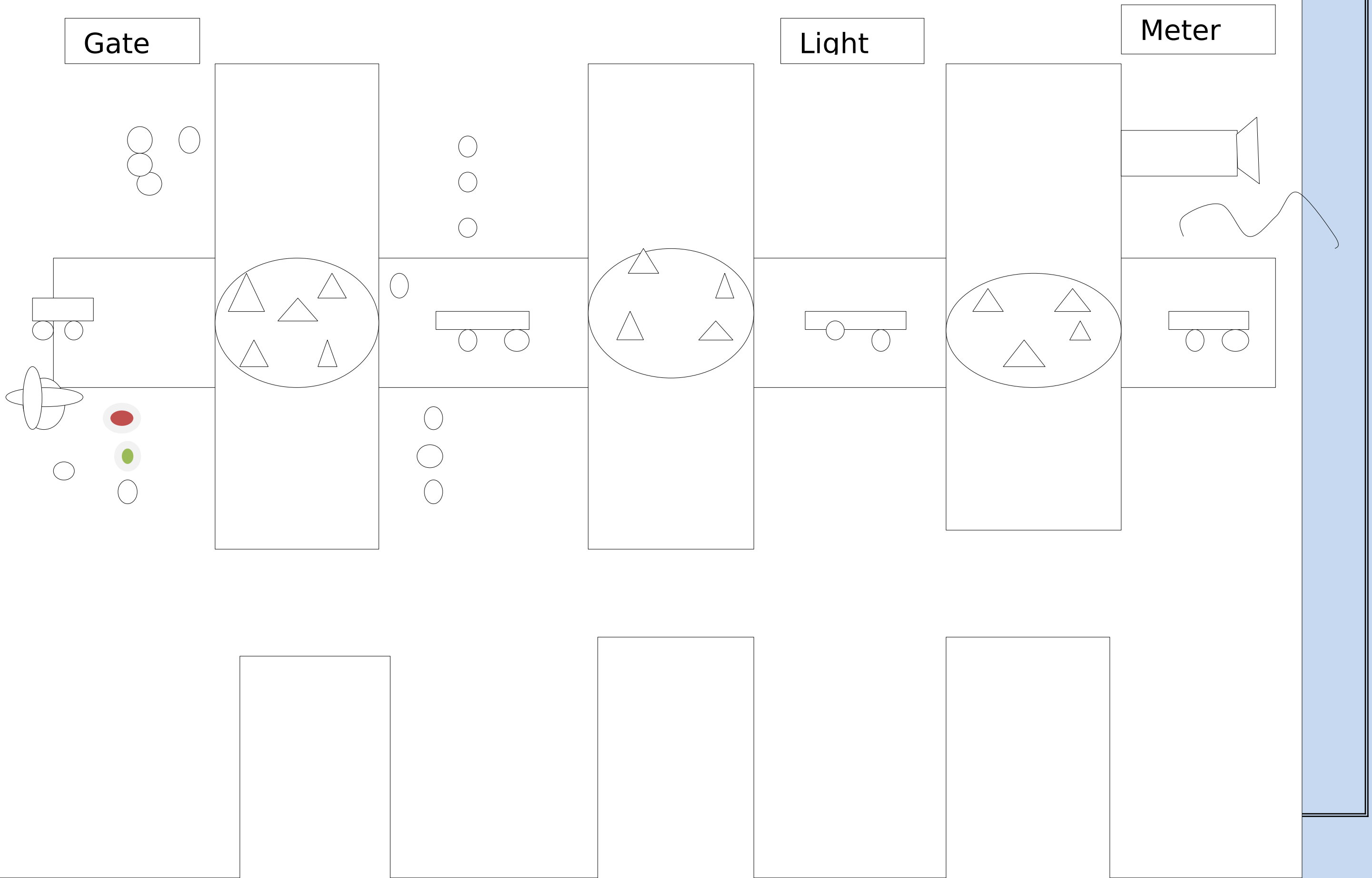
Domain application , use, trade theory industrial, electrical, electronic, use domain military, police, intelligence ,, bridge ways limitation, interference , practical, barrier, whetstone , equation Kirchhoff, Traffic sign



Relation bridge, Kirchhoff equation one source, 2 source , derivative di/dt instantaneous load ,

Et= R1.I1xR5.I5xR4.I4 , if source ET = ones source , 2 source e1, e,2 side

Et= R2.I2xR5.I5xR3.I3

Equation loop , a,b,,d ,a

Equation loop, bd,e

Magnitude loop equation , i1,i2

E= R1.I1+ R2.I2

Et= R1.I1+ R2.I2

.... Substitute compare relation, circuit current pass go , over load , application multi dimensional sector,, identification analyse investigation engenieure , linear, equation

Relation impedance, conductance circuit total

Load di/dt

Z=$r^2+(l+c)^2$,,serie,

1/z conductance paralle, load,

Icco, vcc, rcc, ,, diode load, i diode ,

Ib=ic+ie,,

Ebt= R1b.I1bxR5b.I5bxRb4.Ib4 , if source ET = ones source , 2 source e1, e,2 side

Et= R2b.Ib2xR5b.I5xR3b.I3b ,,

1 **Name of subject**; task, ENGINEERING ELECTRICAL/ N1, N2,N3N,4,N5.N6 , n engineering

Lecturer and moderator is provided; : conies ,

1.2 **Subject aims electrical engineering**: trade theories electrical , industrial electronic , mathematics, electro technology engineering science , electrotechnic, logic system .

/learning objectives are listed:

1.3 Conceptual level indicated per question/ instruction along with mark allocation

1.4 Spread of conceptual weighting indicated for the task as a whole

..POE. EVIDENCE PORTOFOLIO

ACTIVITY LOW LESSON , DOCUMENT DOCKET RELATE

ANALYSE SUBMISSION EVIDENCE LOW, LESSON AND SUBJECT COURSE, TEST TESTIFY CONDITION

TRADE THEORY ELECTRICAL	INDUSTRIAL ELECTRONIC	ENGINEERING SCIENCE	MATHEMATICS	ASSESSMENT INFORMATION	INFORMATION MANAGEMENT, ASS, ACC, POE	BRAKE/TIME

TRADE THEORY ELECTRICAL, REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL LOW TRADING COULOMB , AMPER ,VOLTE, FARADYA, HERY FLEMING KIRICHOOF ,JOUL, WATT / MOTION LOW MODULE TABLE COMPLETED HERTZ, , COMPARATOR CREATOR ENGINEERING ,	OUTCOM LOW EVIDENCE / AMANDEMENT POLICY POLICY 2020 DISCIPLINAIRY ENGINEERING , APPROVED ELECTRICAL POE,, INFORMATION INFORMER ADMNISE CASE , ENGINEERING CREATIVE KNOWLEDGE, THING PROJECTION DESIGN WORK , WORD TOPIC , GOOD CONDUCT ENGINEERING ORDER BOOK / OTCOM TOTAL MARK SHEET CONDUCT TEST DISCIPLINAIRY WORK , GOOD CONDUCT DISCUSS CRITICAL TOPIC, , GOOD CONDITION ORDER BOOKING, COMPLIANCE , ANALYSE FRAMEWORK REGULATORY DELIVERY MANAGEMENT SYSTM INFORMATION V=r.i ...e=v+ri ,,,,linear to supply ex, ey factorise low $A=\pi r^2$ $va^2+vb^2=vc^2$ rms, vrms ,form, ,,z=,
INDUSTRIAL ELECTRONIC REQUIRED , TASK STEP OPERATIONEL LOW	dusting/tuning and calibrating electronic

CREATIVE WORK ENGINEERING ELECTRICAL /	equipment/sub-assemblies Returning to service and testing to specification the repaired electronic equipment/sub-assembly, ie+ib=ib ,, icc,vcc, vz, tcc,
ENGINEERING SCIENCE/ **DRAWING ENGINEERING PROJECTION** **REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL / NEWTON, FORCE MKSS, IS**	LOW ENGINEERING SICENCE COMPARATOR EQUATION FX+FY=0 LINEAR, fx = mx..acc ,,, ua+xt =o , velocity initial time take ,speed , heater, power ,,friction move,, d=s/t $fa^2+f\,b^2=c^2(x+a)_{¿}^{n=¿¿}$ $\sum_{k=0}^{n}\binom{n}{k}x^k a^{n-k}$
MATHEMATIC **REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL**	EQUATION ALGEBRAIC, ,,LINEARING EXPONENT Ax+by=0 $a^2x+b^2y=¿c^2$
ASSESSMENT INFORMATION **REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL**	
INFORMATION MANAGEMENT **REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL**	$(x+a)^n=\sum_{k=0}^{n}\binom{n}{k}x^k a^{n-k}$
ENGINEERING ELECTRIAL FUNDAMENTAL, **SYSTEM** **REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL** **OUTCOM INTEGRATIF SUMMATIVE FORMATIVE TOOLS ASSEMENT** **EVALUATION : QUALIFY** **CREATIVE TASK ON LOW EVIDENCE LOW,** **MEETING COUNSIL ENGINEERING DIPLOMAT CREATIVE, MEETING SUBMISSION**	$va^2+vb^2=vc^2$ $(1+x)^n=1+\frac{nx}{1!}+\frac{n(n-1)x^2}{2!}+\dots$ $f(x)=a_0+\sum_{n=1}^{\infty}\left(a_n\cos\frac{n\pi x}{L}+b_n\sin\frac{n\pi x}{L}\right)$

Pre- assessment record :	

St peace college .

Exam sheet record mark total: score team training . semester 1,2 ,3 month move record

Subject: module , _________________________ . score 1th , 2th ,3th, 4th submission qualify

Learner assessment baseline meet requirement ,level /lo/ lp/ ……………………………………………

Award mark, value weight ……………………………………………………………………………………………………

Award mark certificate value weight ……………………………………………………………………………

Award mark certificate diplomat value weight

Faculty , engineering ,.. Faculty policing ass activity , book mark code book number team explain

Name an surname	Term Test 1, Class work completed	Term Test2,	Term Tet3,	Semester Exam	Term test	Term test	Term test	Semester Exam	Total grand score Achev rating

Invigilator name surname date time learner :

Application: for diplomat engineering electrical award certificate

Inbox

T

ST PEACE COLLEGE / AND A I P

FACULTY : ELECTRICAL ENGINEERING

TIME TABLE , / Study by tshingombe tshitadi fiston learner : conies //...mike

CERTIFICATE AWARD STATEMENT ENGINEERING ,N ,

ASSESSMENT INTEGRITY ACADEMIC, AND SCHOOL ENGINEERING LEARNER

TERM 1 TERM 2. TERM3, 1 YEARS, SECOND YEARS, MARCH. APRIL TERM END

SEMESTER 1 .2.3.4 COMPLETED, SUPLEMENTAIRY

LEVEL , N1,N2,N3,N4,N5,N6 / LEARNER L1,L2,L3,L4,L5,L6,

, DAILY WEEK, DIARY

1TH ATTANDANCE REGISTER / NON ATTANDANCE . POE

MON	**TUE**	**WEN**	**FRI**	**TH**	**SAT**	**SU**	**TIME** **HOUR PERIOD**
TRADE THEORY ELECTRICAL	INDUSTRIAL ELECTRONIC	ENGINEERING SCIENCE	MATHEMATIC	ASSESSMENT INFORMATION	INFORMATION MANAGEMENT	BRAKE	07H
							08H00
							09H00
							10H00
							11H00
							12H00
LEARNING / ENGINEERING ELECTRICAL							13H00
ELECTROTECHNOLOGY/	LOGIC SYSTEM	ENGINEERING DRAWING	MATHEMATIC	ORGANISATION PLANING ,	FRAME WORK REGULATION MANGAGE SYSTM		14H00
ELECTROTECHNIC	INDUSTRIAL ORIENTATION			HUMAINE RELATION COMMUNICAT			15H00
PRACTICAL PANEL WIRING ELECTRICAL LEVEL. LEARNER CIRCUIT CREATIVE ENGINEERING /PROJECT	PRACTICAL PANEL WIRING ELECTRICAL LEVEL. LEARNER CIRCUIT CREATIVE	PRACTICAL PANEL WIRING ELECTRICAL LEVEL. LEARNER CIRCUIT	PRACTICAL PANEL WIRING ELECTRICAL LEVEL. LEARNER CIRCUIT	PRACTICAL PANEL WIRING ELECTRICAL LEVEL. LEARNER CIRCUIT CREATIVE	PRACTICAL PANEL WIRING ELECTRICAL LEVEL. LEARNER CIRCUIT CREATIVE		16H00

	ENGINEERING	CREATIVE ENGINEERING	CREATIVE ENGINEERING	ENGINEERING	ENGINEERING		

Study by tshingombe tshitadi fiston : approved check
learner : conies //...mike

DESIGN E EDUCARE DIDACT / EGONOMETRICAL ENGINEERING DESIGN TIME TABLE / METHODIC / PROTECTION: POLICY ASSESSMENT POE SUBMISSION, ANALYSE FRAMEWORK REGULATORY / AMANDEMENT POLICY POLICY 2020 DISCIPLINAIRY , ASSESSMENT MODERATOR FACILITATOR LOGISTIC POLICE PORTOFOLIO REWARD AWARD , RECORD CLEARENCE SASSSETA ASSESSEMENT CAPS ISAT SAPS MP SAFE SECURITY FRAMEWORK REGULATION TIME TABLE PROTECTION LEGAL QUESTION ANSWERING VALUABLE, REPORT OCCURENE DOCKET DOCUMENT EVIDENCE LOW TIME TABLE DELIVERY SYSTEM INFORMATION ,KEEP SAFE , OFFENCE DEFENSE LOW SANDF SECTOR ENGINEERING ,police script inspect document curriculum script report entry outcome document case ,missing documentation pagination content document confidential document assessment time table, report available certify copyright investigate communication document skill, stamp

-ASSESSMENT MODERATOR EDUCARE TEACHER INSPECTOR TEACH MARKER REWARD AWARD FRAMEWORK CIRCULLUM PORTOFOLIO EDUCATOR DIDACTIC LEARNER FORMATIVE SUMMATIVE TEACHER QUESTION RESEARCH VALUABLE LOW EVIDENCE VALUE OPERATIONEL ASSIGNMENT PSYCHO-PEDAGOGY TEST METRIV COMPLETED TASK MARKING STATEMENT / HIGH EDUCATION

ASSESSMENT MODERATOR LOW LABOUR INSPECTOR COMPENSATOR COSTE AWARD PORTOFOLIO INSURENCE LOW EVIDENCE JUDGEMENT VALUE CONSTITUTIONEL CASE BOOK, PROCESSOR LOYER ATTORNEY ASSESSMENT DISCIPLINERY HERING POLICE REFUND RECOVERY DISCOVERY BARGANING ENGINEERING RELATE INTERPRETE ,EDUCATOR TEACHER ENGINERING LOW FORMATIVE , REFORMATIVEACADEMIC TRANSCRIPT RECORD

1..POE. EVIDENCE PORTOFOLIO

ACTIVITY LOW LESSON , DOCUMENT DOCKET RELATE

ANALYSE SUBMISSION EVIDENCE LOW, LESSON AND SUBJECT COURSE, TEST TESTIFY CONDITION

TRADE THEORY ELECTRICAL	INDUSTRIAL ELECTRONIC	ENGINEERING SCIENCE	MATHEMATICS	ASSESSMENT INFORMATION	INFORMATION MANAGEMENT, ASS, ACC, POE	BRAKE/TIME

TRADE THEORY ELECTRICAL, **REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL LOW TRADING COULOMB , AMPER ,VOLTE, FARADYA,** **HERY FLEMING KIRICHOOF ,JOUL, WATT / MOTION LOW** **MODULE TABLE COMPLETED** **HERTZ, , COMPARATOR CREATOR ENGINEERING ,**	OUTCOM LOW EVIDENCE / AMANDEMENT POLICY POLICY 2020 DISCIPLINAIRY ENGINEERING , APPROVED ELECTRICAL POE,, INFORMATION INFORMER ADMNISE CASE , ENGINEERING CREATIVE KNOWLEDGE, THING PROJECTION DESIGN WORK , WORD TOPIC , GOOD CONDUCT ENGINEERING ORDER BOOK / OTCOM TOTAL MARK SHEET CONDUCT TEST DISCIPLINAIRY WORK , GOOD CONDUCT DISCUSS CRITICAL TOPIC, , GOOD CONDITION ORDER BOOKING, COMPLIANCE , ANALYSE FRAMEWORK REGULATORY DELIVERY MANAGEMENT SYSTM INFORMATION V=r.i ...e=v+ri ,,,,linear to supply ex, ey factorise low $A=\pi r^2$ $va^2+vb^2=vc^2$ rms, vrms ,form, ,,z=,
INDUSTRIAL ELECTRONIC **REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL /**	dusting/tuning and calibrating electronic equipment/sub-assemblies Returning to service and testing to specification the repaired electronic equipment/sub-assembly, ie+ib=ib ,, icc,vcc, vz, tcc,
ENGINEERING SCIENCE/ **DRAWING ENGINEERING PROJECTION** **REQUIRED , TASK STEP OPERATIONEL LOW**	LOW ENGINEERING SICENCE COMPARATOR EQUATION FX+FY=0 LINEAR, fx = mx..acc ,,, ua+xt =o , velocity initial time take ,speed , heater,

CREATIVE WORK ENGINEERING ELECTRICAL / NEWTON, FORCE MKSS, IS	power ,,friction move,, d=s/t $fa^2+f\,b^2=c^2\left(x+a\right)_{¿}^{n=¿¿}$ $\sum_{k=0}^{n}\binom{n}{k}x^k a^{n-k}$
MATHEMATIC REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL	EQUATION ALGEBRAIC, ,,LINEARING EXPONENT Ax+by=0 $a^2\,x+b^2\,y=¿\,c^2$
ASSESSMENT INFORMATION REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL	
INFORMATION MANAGEMENT REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL	$\left(x+a\right)^n=\sum_{k=0}^{n}\binom{n}{k}x^k a^{n-k}$
ENGINEERING ELECTRIAL FUNDAMENTAL, SYSTEM REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL OUTCOM INTEGRATIF SUMMATIVE FORMATIVE TOOLS ASSEMENT EVALUATION : QUALIFY CREATIVE TASK ON LOW EVIDENCE LOW, MEETING COUNSIL ENGINEERING DIPLOMAT CREATIVE, MEETING SUBMISSION	$va^2+vb^2=vc^2$ $\left(1+x\right)^n=1+\frac{nx}{1!}+\frac{n\left(n-1\right)x^2}{2!}+\ldots$ $f\left(x\right)=a_0+\sum_{n=1}^{\infty}\left(a_n\cos\frac{n\pi x}{L}+b_n\sin\frac{n\pi x}{L}\right)$
STATEMENT OF WORK EXPERIENCE/LOGBOOK Instructional Programme Code:50908401National N Diploma: Engineering Studies: Electrical Engineering SAQA Qualification ID:90674: National N Diploma, Engineering Studies: Electrical Engineering NQF	Unit Descriptor Unit descriptor This unit covers terminating, disconnecting or reconnecting electrical wiring and circuits. Application of the UnitApplication of the unit This unit applies to the connection of wiring and includes termination and connection of all types of cords and cables, excluding specialist cables.All testing is undertaken on completed circuits where these are not connected to main supply, using appropriate methods such as continuity and resistance checks.Specifications are obtained from electrical/electronic circuit drawings and data sheets. Soldering/desoldering of electrical/electronic components may also require the

Level 6, 360 creditsSAQA Learning Programme ID:67043National N Diploma: Engineering Studies: Electrical Engineering,NQF Level 6, 360 creditsLearner DetailsName & Surname:ID Number:Employer DetailsCompany Name:Address:Supervisor Name:Work Telephone:E-Mail:Employer DetailsCompany Name:Address:Supervisor Name:Work Telephone:E-Mail:

90674: National N Diploma, Engineering Studies: Electrical Engineering2Candidate completed a relevant Trade Test or worked in a technical environment relevant to the specialised theoretical subjects

interpret technical drawingDateSignatureLook for evidence that confirms skills in:WA0201Checking the drawing against job requirements/related equipment in accordance with standard operating proceduresWA0202Confirming the drawing version as being current in accordance with standard operating proceduresWA0203Where appropriate, obtaining the current version of the drawing in accordance with standard operating proceduresWA0204Reading, interpreting information on the drawing, written job instructions, specifications, standard operating procedures, charts, lists and other applicable reference documentsWA0205Checking and clarifying task related information

90674: National N Diploma, Engineering Studies: Electrical Engineering6WA0206Undertaking numerical operations, geometry and calculations/formulae within the scope of this u

Terminate and connect electrical wiringDateSignatureLook for evidence that confirms skills in:WA0301Checking materials for conformance to specificationsWA0302Checking existing and new installation site for correct location and specificationWA0303Making terminations/connections to specification, manufacturer and regulatory requirementsWA0304Adjusting and fixing wiring supportsWA0305Marking, tagging and labelling cables, wires, conductors and connections to specificationWA0306Undertaking testing of wiring and connections for conformance to specificationWA0307Using language and literacy skills to complete short reports and required documentationWA0308Reading and interpreting routine information on written job instructions, specifications and standard operating procedures May include drawingsWA0309Using measurements for checking connections and componentsWE4Install and test electrical wiring and circuits up t

mponentsWE4Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.DateSignatureLook for evidence that confirms skills in:WA0401Interpreting circuits, drawings, specifications and instructionsWA0402Preparing work plans in accordance with legislative and regulatory requirements and standard operating procedures and hazard and safety requirements

90674: National N Diploma, Engineering Studies:

selection of Unit MEM05001B (Perform manual soldering/desoldering -electrical/electronic components) or Unit MEM05002B (Perform high reliability soldering and desoldering) as applicable.This unit does not cover the competencies required for energising and testing of the circuit. If these skills are required, the competencies covered in Unit MEM10003B (Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.) must be satisfied.Termination and connection of specialist cables such as mineral insulated, steel wire, armoured cables etc., is covered in Unit MEM10011B (Terminate and connect specialist cables).Band:AUnit Weight:3Licensing/Regulatory InformationNot Applicable MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 4of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaPre-RequisitesPrerequisite unitsPath 1MEM09002BInterpret technical drawingMEM12002BPerform electrical/electronic measurementMEM18001CUse hand toolsEmployability Skills InformationEmployability skillsThis unit contains employability skills.Elements and Performance Criteria Pre-ContentElements describe the essential outcomes of a unit of competency.Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 5of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaElements and Performance CriteriaELEMENTPERFORMANCE CRITERIA1.Prepare for electrical wiring termination and connection1.1.All work is undertaken safely and to workplace procedures and State/Territory regulations and legislative requirements.1.2.Materials are checked for correct specifications.1.3.Preparation of work is undertaken or checked/inspected for correct location and specifications.2.Connect electrical wiring2.1.Terminations/connections are made to specifications, manufacturers' requirements and to safety and State/Territory regulations and legislative requirements.2.2.All brackets, clamps, holders etc. are adjusted and fixed to specifications.2.3.All cables, wires, conductors and connections etc. are marked/tagged and labelled to specification.2.4.All completed wiring and connections are tested for compliance with specifications.2.5.All reports and documentation are completed correctly to required specifications.Required Skills and KnowledgeREQUIRED SKILLS AND KNOWLEDGEThis section describes the skills and knowledge required for this unit.Required skillsLook for evidence that confirms skills in:•checking materials for conformance to specifications•checking existing and new installation site for correct location and specification•making terminations/connections to specification, manufacturer and regulatory requirements•adjusting and fixing wiring supports•marking, tagging and labelling cables, wires, conductors and connections to specification•undertaking testing of wiring and connections for conformance to specification•using language and literacy skills to complete short reports and required

MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 6of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaREQUIRED SKILLS AND KNOWLEDGEdocumentation•reading and interpreting routine information on written job instructions, specifications and standard operating procedures Mayinclude drawings•using measurements for checking connections and componentsRequired knowledgeLook for evidence that confirms knowledge of:•safety hazards associated with the termination and connection of electrical wiring •statutory and regulatory requirements associated with the termination and connection of electrical wiring•wiring support and/or protection requirements and specifications•relevant manufacturer requirements•specifications and methods for terminating different materials •wiring support techniques and alternatives•marking, tagging and labelling requirements for cables, wires, conductors and connections•tests for wiring and connections•data to be recorded/reported and the frequency of recording/reporting•requirements for approval to work•use and application of personal protective equipment for terminating and connecting electrical wiring

MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 7of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaEvidence GuideEVIDENCE GUIDEThe evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.Overview of assessmentA person who demonstrates competency in this unit must be able to terminate and connect electrical wiring. Competency in this unit cannot be claimed until all prerequisites have been satisfied.Critical aspects for assessment and evidence required to demonstrate competency in this unitAssessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.Context of and specific resources for assessmentThis unit may be assessed on the job, off the job or a combination of both on and off the job. Where assessment occurs off the job, that is the candidate is not in productive

Electrical Engineering7WA0403Following relevant legislative and regulatory requirements and standard operating procedures to work practicesWA0404Using measurement for installing and testing electrical wiring and circuitsWA0405Checking materials for conformance to specification WA0406Selecting cablesWA0407Installing cables/wires/conduit/enclosures and support systemsWA0408Marking and labelling cabling for identificationWA0409Testing wiring/systems and enclosures for compliance with specifications, relevant regulatory and legislative requirementsWA0410Energising and testing installationWA0411Identifyingand rectifying faultsWA0412Completing reports and documentation using short descriptions, comments and relevant terminologyWA0413Considering potential points of danger when planning a rescue or provision of assistanceWA0414Isolating electrical hazards in accordance with safety proceduresWE5Enter and change programmable controller operational parametersDateSignatureLook for evidence that confirms skills in**mponentsWE4Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.DateSignatureLook for evidence that confirms skills in:WA0401Interpreting circuits, drawings, specifications and instructionsWA0402Preparing work plans in accordance with legislative and regulatory requirements and standard operating procedures and hazard and safety requirements**

90674: National N Diploma, Engineering Studies:

Electrical Engineering7WA0403Following relevant legislative and regulatory requirements and standard operating procedures to work practicesWA0404Using measurement for installing and testing electrical wiring and circuitsWA0405Checking materials for conformance to specification WA0406Selecting cablesWA0407Installing cables/wires/conduit/enclosures and support systemsWA0408Marking and labelling cabling for identificationWA0409Testing wiring/systems and enclosures for compliance with specifications, relevant regulatory and legislative requirementsWA0410Energising and testing installationWA0411Identifyingand rectifying faultsWA0412Completing reports and documentation using short descriptions, comments and relevant terminologyWA0413Considering potential points of danger when planning a rescue or provision of assistanceWA0414Isolating electrical hazards in accordance with safety proceduresWE5Enter and change programmable controller operational parametersDateSignatureLook for evidence that confirms skills in

OFO-CODETRADE[√]COMMENTS642701Air-Conditioning and RefrigerationElectrical Specialisation Due to specialisation and the variety of trades (12 Trades) that lead to this diploma a learner needs at least complete at least 10 work experience and related activitiesinthe area of specialisationElectricians can specialise in:•construction, •high voltage installations, •substations, •pane wiring, etc. Artisans in:•refrigeration, •air-conditioning,•armature winding, •electronics, •megatronics, etc. and •Complete electrical subjects. How to Use this Module

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work, then an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate. This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with terminating and connecting electrical wiring or other units requiring the exercise of the skills and knowledge covered by this unit.Method of assessmentAssessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.

MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 8of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaEVIDENCE GUIDEGuidance information for assessmentRange StatementRANGE STATEMENTThe range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.State/Territory regulations and legislative requirementsApplicable acts, regulations, codes of practice, Australian standards, International standardsCorrect location and specifications Cable trays, brackets, trenches Electrical wiringWiring associated with power, lighting, control wiring, machinery, switchboards and other electrical apparatusTerminations/connectionsUtilisation of a range of methods including clamping, crimping, pin connection, soldered joints, plugs, sockets etc., clamping of cables and wires, sealing entry points where req

Side Cutter Pliers - used for cutting or trimming of connecting wires or terminal leads in the circuit board

Long nose Pliers – used for holding, bending and stretching the lead of electronics component or connecting wire.

Soldering Pencil – used to join two or more metal conductors with the support of soldering lead melted around it.

Multitester - instrument use to measure voltage, current and resistance.

Resistor - a device designed intentionally to have a definite amount of resistance

Capacitor – a devise that stores electrical energy.

Terminate - was a shareware modem terminal and host program for MS-DOS and compatible operating systems developed from the early to the late 1990s by the

Introduction
Technical Terms
Learning Outcome
Information
Sheet
Oper
ation
Sheet
1.1
Self Check 1.1
Operation
Sheet
Learning Outcome 2
Information
Sheet

Activity Sheet
Learning Outcome 3
Job Sheet 3.1
Self
-
Test
A. State whether the following is
equipment
or a handtool.
____________ 1. Desoldering Tool
____________ 2. Soldering Pencil
____________ 3. Multi
-
Volts Power Supply
____________ 4. Long Nose Pliers
____________ 5. Portable Electric Handrill
B.
Write true if the statement is correct and false if
otherwis
e:
____________ 1. A flat screwdriver is used in
driving or fastening positive slotted
screw.
____________ 2. Soldering Pencil is used to join
two or more metal conductors
with the support of soldering lead melted around
it.
____________ 3.
Side Cutter Pliers is used for cutting or trimming
of connecting
wires or terminal leads in the circuit board.
____________ 4. A multi
-
tester is used in boring holes in the plastics
chassis.
____________ 5. A long nose pliers
is used for holding, bending and sketching the
lead of electronics component or connecting
wire.

CTIVITY SHEET 2.1

Learning Outcome 2.
Soldering and Terminating Techniques
Solder the given components in electronics.
Item
no.
Laboratory
Activities
T
O
T
A
L
1.
Soldering Technique

Dane
Bo Bendtsen.
Terminat
ion
-
the point where a line, channel or circuit ends.

OPERATION SHEET 1.1

1
.
Given 10 kinds of hand tools Label and give the function of
each. You will be
assessed using the following criteria.
Criteria
Score
Descriptor
Identified 10
tools
5
Excellent
Identified 7
-
9 tools
4
Very good
Identified 4
-
5 tools
3
Good
Identified 2
-
3 tools
1
-
2
Fair
Identified 0
-
1 tools
0
Po

Module
:
Terminating and Connecting Electrical
Wiring and Electronic Circuits
Learning Outcome 3 :
Test Termination and or Connection of Electrical
Wirings/electronics circuits
Assessment Criteria:
1.
Testing of all completed termination/connection of electrical
wiring/electronics circuits is conducted in compliance with
specifications
and regulations u
sing appropriate procedures and equipment.
2.
Wiring and circuits are checked using specified testing
procedure.
3.

Accidental events or conditions are responded to in accordance with **Shannon–Hartley theorem**

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Information theory

- Entropy
- Differential entropy
- Conditional entropy
- Joint entropy
- Mutual information
- Conditional mutual information
- Relative entropy

Are performed
2.
Wiring and
connections are
soldered
3.
Safety Precautions
are observed
5
-
Skillfully performed
4
-
Very Satisfactory performed
3
-
Satisfactorily performed
2
-
Fairly performed
1
-
Poorly performed

A2104Running test functions and recording faults and/or equipment status indicated by built-in test functions/displaysWA2105Checking electronic equipment/sub-assemblies, components, connections and terminations for conformance to specificationsWA2106Removing and replacing components from the electronic equipmentWA2107Isolating electronic sub-assembly from the power supply90674: National N Diploma, Engineering Studies: Electrical Engineering23WA2108Adjusting/tuning and calibrating electronic equipment/sub-assembliesWA2109Returning to service and specification of electronic equipment/sub-assemblyWA2110Recording test resultsWE22Modify electronic equipmentDateSignatureLook for evidence that confirms skills in:WA2201Obtaining relevant circuit diagrams, schematics, manualsWA2202Isolating, tagging and verifying isolated equipmentWA2203Removing and refitting sub-assembly/equipment from the systemWA2204Carrying out modifications to specificationWA2205Amending circuit diagrams, schematics, equipment manuals, specifications affected by the modificationsWA2206Recommissioning electronic equipmentWA2207Testing, checking modified electronic equipment to ensure conformance to specificationsWA2208Entering routine and familiar information onto pro-forma and standard workplace formsWA2209Locating, reading and interpreting information on written job instructions, specifications, drawings, charts, lists and other reference documentationWE23Maintain, repair control instrumentation -single and multiple loop control systemsDateSignature90674: National N Diploma, Engineering Studies: Electrical Engineering24Look for evidence that confirms skills in:WA2301Obtaining and interpreting relevant engineering specifications, technical information, software data, diagrams and drawings, historical records and documents pertaining to the system components and operational dataWA2302Consulting system operators and other relevant plant personnel with respect to the control loop

- Entropy rate
- Limiting density of discrete points

- Asymptotic equipartition property
- Rate–distortion theory

- Shannon's source coding theorem
- Channel capacity
- Noisy-channel coding theorem
- Shannon–Hartley theorem

- v
- t
- e

In information theory, the **Shannon–Hartley theorem** tells the maximum rate at which information can be transmitted over a communications channel of a specified bandwidth in the presence of noise. It is an application of the noisy-channel coding theorem to the archetypal case of a continuous-time analog communications channel subject to Gaussian noise. The theorem establishes Shannon's channel capacity for such a communication link, a bound on the maximum amount of error-free information per time unit that can be transmitted with a specified bandwidth in the presence of the noise interference, assuming that the signal power is bounded, and that the Gaussian noise process is characterized by a known power or power spectral density. The law is named after Claude Shannon and Ralph Hartley.

Contents

- 1 Statement of the theorem
- 2 Historical development
    - 2.1 Nyquist rate
    - 2.2 Hartley's law
    - 2.3 Noisy channel coding theorem and capacity
- 3 Implications of the theorem
    - 3.1 Comparison of Shannon's capacity to Hartley's law
- 4 Frequency-dependent (colored noise) case
- 5 Approximations
    - 5.1 Bandwidth-limited case
    - 5.2 Power-limited case

amples

1. At a SNR of 0 dB (Signal power = Noise power) the Capacity in bits/s is equal to the bandwidth in hertz.
2. If the SNR is 20 dB, and the bandwidth available is 4 kHz, which is appropriate for telephone communications, then C = 4000 $\log_2(1 + 100)$ = 4000 $\log_2(101)$ = 26.63 kbit/s. Note that the value of S/N = 100 is

characteristicsWA2303Confirming function/malfunction of the system and/or its componentsWA2304Checking operational characteristics of control devices, signal conversion instruments and final control elements for conformance to specificationWA2305Identifying faults/defects in control system componentsWA2306Locating/reading in-built fault indicators and error codesWA2307Obtaining relevant pneumatic, electrical and electronic circuit diagramsWA2308Testing and monitoring the control loop for correct operationWA2309Monitoring and recording responses of the control systemWA2310Using appropriate fault-finding and diagnostic techniques and procedures throughout the monitoring and testing processWA2311Comparing collected data with the operational specifications of the control systemWA2312Marking components for repair or replacement90674: National N Diploma, Engineering Studies: Electrical Engineering25WA2313Dismantling/disassembling serviceable itemsWA2314Setting up appropriate test and calibration equipmentWA2315Setting and adjusting the controller modesWA2316Checking the control instrumentation for correct zero, span and rangeWA2317Adjusting the control system as requiredWA2318Completing all necessary reports including appropriate follow-up proceduresWA2319Commissioning the control systemWA2320Interpreting trends from operational dataWA2321Interpreting information from in-built devicesWA2322Calculating control loop characteristicsWE24Install, maintain and calibrate instrumentation sensors, transmitters and final control elementsDateSignatureLook for evidence that confirms skills in:WA2401Accessing relevant data sheets, circuit diagrams, engineering drawings, instructions, specifications, information and supplier catalogues and replacement componentsWA2402Selecting sensors, transmitters and final control elements90674: National N Diploma, Engineering Studies: Electrical Engineering26WA2403Installing and testing sensors, transmitters and final control elements to specificationWA2404Obtaining and performing relevant scheduled/preventative maintenance schedules for sensors, transmitters and final control elementsWA2405Determining correct function of sensors, transmitters and final control elementsWA2406Recording test resultsWA2407Identifying, localising, monitoring and reporting/recording faults in sensors, transmitters and final control elementsWA2408Preparing sequential action plan to correct faults in sensors, transmitters and final control elementsWA2409Applying procedures to sequential and loop testingWA2410Checking sensors, transmitters and final control elements and marking for replacement, repair or overhaulWA2411Repairing/overhauling faulty items for fitting and /or refittingWA2412Fitting/

equivalent to the SNR of 20 dB.

3. If the requirement is to transmit at 50 kbit/s, and a bandwidth of 10 kHz is used, then the minimum S/N required is given by 50000 = 10000 $\log_2(1+S/N)$ so C/B = 5 then $S/N = 2^5 - 1 = 31$, corresponding to an SNR of 14.91 dB (10 x $\log_{10}(31)$).
4. What is the channel capacity for a signal having a 1 MHz bandwidth, received with a SNR of −30 dB ? That means a signal deeply buried in noise. −30 dB means a S/N = 10^{-3}. It leads to a maximal rate of information of $10^6 \log_2 (1 + 10^{-3}) = 1443$ bit/s. These values are typical of the received ranging signals of the GPS, where the navigation message is sent at 50 bit/s (below the channel capacity for the given S/N), and whose bandwidth is spread to around 1 MHz by a pseudo-noise multiplication before transmission.
5. As stated above, channel capacity is proportional to the bandwidth of the channel and to the logarithm of SNR. This means channel capacity can be increased linearly either by increasing the channel's bandwidth given a fixed SNR requirement or, with fixed bandwidth, by using higher-order modulations that need a very high SNR to operate. As the modulation rate increases, the spectral efficiency improves, but at the cost of the SNR requirement. Thus, there is an exponential rise in the SNR requirement if one adopts a 16QAM or 64QAM (see: Quadrature amplitude modulation); however, the spectral efficiency improves.

POLICE ACT

HEAD OFFICE

Chief Engineer (Electrical) Remuneration Level:R796 965 per annum **LOCATION:**SCM: Programme & Project Management (Persequor Park, Lynnwood, Pretoria,) **REFERENCES: SCM193/2019** (1 post)

Generic Requirements: Applicants must display competency in the post-specific functions of the post• Be a SA Citizen• Be fluent in at least two official languages, of which one must be English• Be in possession of a

refitting sensors,transmitters and final control elementsWA2413Preparing fitted/refitted sensors, transmitters and final control elements for testing and calibrationWA2414Configuring, calibrating, testing, adjusting, tuning and validating system performanceWE25Terminate signal and data cablesDateSignatureWA2501Identifying cables and conductorsWA2502Labelling cables and conductors90674: National N Diploma, Engineering Studies: Electrical Engineering27WA2503Obtaining relevant instructions, specifications and data sheetsWA2504Preparing cable ends for terminationWA2505Following specificationsWA2506Testing completed terminations for compliance to specificationsWA2507Fixing/securing cablesWE26Maintain instrumentation system componentsDateSignatureLook for evidence that confirms skills in:WA2601Obtaining relevant data with respect to the operation of the instrumentation systems/equipmentWA2602Locating, inspecting and testing a range of instrumentation system componentsWA2603Isolating instrumentation system/equipmentWA2604Obtaining and interpreting all relevant instrumentation circuits, drawings, instructions, manuals and data sheetsWA2605Checking the individual components within the instrumentation system for correct operationWA2606Dismantling/repairing/reassembling faulty componentsWA2607Selecting correct replacement parts from the manufacturer/supplier cataloguesWA2608Checking repaired/replaced instrumentation system components for correct operation90674: National N Diploma, Engineering Studies: Electrical Engineering28WA2609Completing service reportsWA2610Obtaining error code interpretation documentsWA2611Recording/documenting test resultsWA2612Undertaking zero, span and range checks on instrumentation systems/equipmentWA2613Calibrating instrumentation system/equipmentWE27Diagnose and repair digital equipment and componentsDateSignatureLook for evidence that confirms skills in:WA2701Obtaining relevant circuit diagrams, manuals, schematics, specifications, maintenance records, supplier cataloguesWA2702Locating, reading/recording and diagnosing built-in fault indicatorsWA2703Obtaining error code interpretation documentsWA2704Running test functions and recording faults and/or equipment status indicated by built-in test functions/displaysWA2705Checking electronic equipment/sub-assemblies, components, connections and terminations for conformance to specificationsWA2706Removing and replacing/repairing faulty components from the electronic equipmentWA2707Recording results tests on electronic equipment90674: National N Diploma, Engineering Studies: Electrical	valid light motor vehicle driver's licence (Police Act members only)• Must have no previous convictions or cases pending• Must not have visible tattoo/s when wearing summer uniform (Police Act posts)• Applicants will be subjected to a vetting process which will include• security screening and fingerprint verification fingerprints verification. **Additional Requirements:** Proven appropriate managerial experience• Senior Certificate• Relevant NQF 6 qualification in the field of the post• Compulsory registration as a Professional Engineer at the Engineering Council of South Africa• Four (4) years relevant post-registration experience will be an advantage• **Skills:** Computer literacy, problem solving, project management. **Core Functions:** Manage all electrical aspects of construction projects, including design, documentation and inspection• Brief/liaise with consultants• Compile specifications for equipment used in SAPS• **GENERAL:** Only the official application form (available on the SAPS website and• at SAPS recruitment offices) will be accepted. All instructions on the application form must be adhered to. Failure to do so may result in the rejection of the application. The Z83 previously utilized will no longer be accepted. The post particulars and reference number of the post must be correctly specified on the application form.• A comprehensive Curriculum Vitae must be submitted together with the application form.• Certified copies of an applicant's ID document, motor vehicle driver's• licence (where applicable), all educational qualifications obtained together with academic records thereof and service certificates of previous employers stating the occupation, must also be submitted and attached to every application. The copies must be correctly certified on the copy itself, not at the back. The certification must not be older than three months. Qualifications and driver's licences will be subjected to verification• checking with the relevant institution. The South African Police Service will

Engineering29WA2708Isolating electronic sub-assembly from the power supplyWA2709Adjusting/tuning and calibrating electronic equipment/sub-assembliesWA2710Returning to service and testing to specification there paired electronic equipment/sub-assemblyWA2711Reporting/recording return to serviceWA2712Reproducing fault symptoms in the electronic equipment and verifying faults using appropriate test equipment and fault finding techniquesWA2713Refitting repaired/replaced components into the sub-assemblyWE28Apply principles of occupational health and safety in the work environmentDateSignatureLook for evidence that confirms skills in:WA2801Following safe working practicesWA2802Maintaining a safe and clean condition workplaceWA2803Carrying out workplace activities such as working safely, not endangering others, following company and legislative requirements, following proceduresWA2804Selecting, wearing and storing appropriate personal protective equipmentWA2805Using appropriate safety equipment and devicesWA2806Carrying out work with the information given by safety signs and symbols90674: National N Diploma, Engineering Studies: Electrical Engineering30WA2807Carrying out manual handling principlesWA2808Using emergency equipment correctlyWA2809Noting workplace hazardsWA2810Contacting appropriate personnel and emergency services in the event of an accidentWA2811Following emergency and evacuation proceduresWA2812Communicating and interpreting information appropriate to OH&S within the scope of this unitWA2813Checking and clarifying task-related informationWA2814Communicating with emergency personnelWA2815Checking for conformance to specifications

e: Technical Officer - Electrical /London

Salary: £31,070 to £36,893 plus £2,930 location allowance. You will receive £31,070 the band minimum. Progress to the band maximum of £36,893 will be via incremental progression

Location: Southwark

Could you create the latest crime-fighting technology?

As the challenge of fighting crime becomes increasingly complex, we're turning to technology to give us a new edge. Our Technology, Research & Innovation team comes up with advanced technology to help our officers – and you can be at the heart of pioneering

verify the residential address of applicants and conduct reference checks.

All short-listed candidates will be subjected to fingerprint screening.•

Persons who retired from the Public Service by taking a severance• package, early retirement or for medical reasons, as well as persons with previous convictions, are excluded.

Applications must be mailed timeously. Late applications will not be accepted or considered. •

The closing date for all applications is **2019-05-10 at 12:00**.

If a candidate is short-listed, it can be expected of him/her to• undergo a personal interview. Shortlisted candidates may be subjected to security clearance.

Correspondence will be conducted with successful candidates only. If• you have not been contacted within 3 months after the closing date of this advertisement, please accept that your application was unsuccessful.

Appointments will be made in terms of the Public Service Act, 1994• (Act no 103 of 1994) or Police Service Act, 1995 (Act no 68 of 1995) as stipulated.

Applicants appointed under the Police Service Act will be subjected to• a medical assessment by a medical practitioner as determined by SAPS prescripts.

Applicants appointed under the Police Service Act will be subjected to• undergo a lateral entry programme at a SAPS Academy & Training Centre

The South African Police Service is under no obligation to fill a post after advertisement thereof.•

Short-listed candidates for appointment to certain identified posts• will be vetted in terms of the Criminal Law (Sexual Offences and related Matters) Amendment Act, 2007 (Act No 32 of 2007) and the children's Act, 2005 (Act No 38 of 2005). A candidate, whose particulars appear in either the National Register of Sex Offenders or Part B of the Child Protection Register, will be disqualified from appointment to the post.

The Criminal Law (Forensic Procedures) Amendment Act, Act 37 of 2013• requires that all new appointments in the South African Police Service as from 31 January 2015 provide a buccal (inside cheek) sample in order to determine their forensic DNA profile. The forensic DNA profile derived from the sample will be loaded to the Elimination Index of the National Forensic DNA Database.

projects that help keep London safe.

From bespoke electronic communications systems to miniaturised solutions, our team creates innovative ideas to solve complex policing problems. You'll be part of the Electronic Systems Development team, where you'll tackle the entire project lifecycle: concept, development, prototyping, manufacture, assembly and test. It's all about understanding what our officers need and coming up with brilliant, workable ideas. This could involve modifying existing technology or creating it from scratch. Either way, you'll have a varied, hands-on role that could involve software and hardware development, project meetings and design reviews. You may even have the chance to join Met officers out into the field. You'll certainly be working both independently and in project teams, so you'll need to be comfortable collaborating and working on your own.

An experienced professional, you'll have an HNC/HND or OCN/OND in Electronic or Electrical Engineering. Ideally, your expertise covers at least some of the following:

- General electronics
- Embedded systems including hardware and software
- Audio, communication and RF systems
- Schematic capture and PCB design
- Manufacturing techniques

With the people skills to work with suppliers, internal customers and our technical teams, you'll thrive on the opportunity to innovate for our city.

To apply, please visit our website to download a role specific information pack and click on the link to complete and submit the online application form. You are also required to submit an up to date CV.

Completed applications must be submitted by 23.55pm on Tuesday 29th May.

We view diversity as fundamental to our success. To tackle today's complex policing challenges, we need a workforce made up from all of London's communities. Applications from across the community are therefore essential.

www.metpolicecareers.co.uk

Essential For The Role

Essential

Knowledge, Skills

- **Working with Development Engineers to take in requirements and assisting with design solutions to business problems, and turn these into fully functional products or systems. Including working on any part of the development lifecycle including electronics design, prototyping, manufacture, test and assembly**

- **Working comfortably and efficiently on their own, in a project team containing departmental colleagues either in the laboratory or out in the field**

- **Provide third line support and fault analysis in laboratory or in the field alongside operational colleagues and officers.**

Experience

Practical experience in developing technology solutions in many of the following areas:

- **General Electronics**

- **Embedded systems including hardware and software**

- **Knowledge of Audio, Communication and RF systems**

- **Schematic capture and PCB design**

- **Liaison with external suppliers and manufacturers**

- **Manufacturing techniques**

- **Experience of product evaluation and selection**